**TY. B. Tech.**

**CS 3001: software Engineering Laboratory**

**ASI (Archaeological Survey Of India) Informatory**

***Version 1.0***

|  |  |  |  |
| --- | --- | --- | --- |
| Project Group Information | | | |
| Roll. No. | **Gr. No.** | **Name** | **Roles** |
| 16 | **161176** | **Radhika Dusane** | **Designer** |
| 24 | **161190** | **Supriya Khedkar** | **Developer** |
| 38 | **161687** | **Dipti Pharate** | **Tester** |

**Approved By: Mahesh R. Dube**

**Table of Contents**

|  |  |  |
| --- | --- | --- |
| **Sr. No.** | **Title** | **Page** |
| 1 | Statement of Work | **3** |
| 2 | Feature Set | **10** |
| 3 | System Requirement Specification | **28** |
| 4 | Feasibility Study | **41** |
| 5 | Project Plan | **46** |
| 6 | Product Backlog | **54** |
| 7 | User Story Cards | **65** |
| 8 | System Configuration Management Plan | **144** |
| 9 | System Construction | **171** |
| 10 | Project Review |  |

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**CS 3001: software Engineering Laboratory**

Assignment No: 1

**ASI Informatory**

**Statement Of Work**

|  |  |  |  |
| --- | --- | --- | --- |
| *Project Group Information* | | | |
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***Approved By****:* ***Prof. Dr. Mahesh Dube***

***Academic Year: 2018-19 Semester: II***

***Table of Contents***

|  |  |  |
| --- | --- | --- |
| ***Sr. No.*** | ***Title*** | ***Page*** |
| *1* | *Title* | ***5*** |
| *2* | *Background* | ***5*** |
| *3* | *Objective* | ***6*** |
| *4* | *Definitions and Applicable Documents* | ***6*** |
| *5* | *Business and/or Technical Environment* | ***6*** |
| *6* | *Description and Scope Of Work* | ***7*** |
| *7* | *Deliverables* | ***7*** |
| *8* | *Contractor Re source Requirements and Qualifications (If Required)* | ***7*** |
| *9* | *Approach and Methodology* | ***8*** |

# *TITLE*

*The project,****ASI (Archaeological Survey of India) Informatory is a web-based application****which is easy to access and user friendly.*

*1.1 The purpose of this application is to give detailed information about the Archaeological Survey of India (ASI) under the Ministry of Culture.*

*1.2 Users can get information about the monuments, excavations, museums, conservation and preservation of monuments. Details related to National Mission on Monuments and Antiquities, Central Archaeological Library, Institute of Archaeology, etc. are given. Details about ASI offices such as Agra Circle, Aurangabad circle, Bhopal circle, Delhi circle, etc. are available. List of World Heritage sites is al so given.*

# *BACKGROUND*

*The Archaeological Survey of India is an Indian government agency attached to the Ministry of Culture that is responsible for archaeological research and the conservation and preservation of cultural monuments in the country. It was founded in 1861 by Alexander Cunningham who al so became its first****Director****-General.*

*Archaeological Survey of India is an attached office of department of Culture with headquarters in New Delhi. It has 24 regional Circles and 5 Regional Directorates*

1. *preservation, conservation and environmental development of centrally protected monuments and sites, including World Heritage Monuments and antiquitie*
2. *maintenance of gardens & development of new gardens surrounding centrally protected monuments and sites*
3. *exploration and excavation of ancient sites*
4. *specialized study of inscription and various phases of Indian architecture*
5. *maintenance of Archaeological site Museums*
6. *Operation of the Antiquities andplaceTreasures Act*
7. *Research and Training in different areas of Archaeology*

# *OBJECTIVE*

*Why? The software helps visitors and foreign tourists to get to about various Archaeological places in India*

*Where? This software would be used in Indian Tourism.*

*What? It is the Organisation’s intent to award the resulting service to one or multiple Tourism departments worldwide.*

*Other objective includes designing a user-friendly GUI, using a stable server-side system and other technical options.*

* *The ASI Informatory System is faster to access to both admin and user.*
* *By this proposal, admin and user can save their time easily by avoiding lots of manual work.*
* *It provides more reliable service.*
* *This system is more informative to tourists.*
* *It is easy and useful to al to get to know about various requirements needed for visit.*

# *DEFINITIONS AND APPLICABLE DOCUMENTS*

* 1. ***User:*** *Entity that has authority to use an application, equipment, facility, process or system or one who consumes or employs a good or service to obtain a benefit or to solve a problem and who may or may not be the actual purchaser of the item*
  2. ***Count:*** *Catalogue can be configured to display the total number of Archaeological places in the country.*
  3. ***End User****: An end user is the per son that a software program or hardware device is designed for. The term is based on the idea that the "end goal" of a software or hardware product is to be useful to the consumer. The end user can be contrasted with the developers.*
  4. ***Tourist****: Tourist is a per son who will be visiting the Archaeological place or visited the place.*
  5. ***Stakeholder:*** *refers to anyone who is invested in the welfare and success of a ASI including administrators, supporting team and government officials etc.*

# 

# *BUSINESS AND/OR TECHNICAL ENVIRONMENT*

*The software requires the following Business and Technical Environment to successfully commence in the stipulated time and re sources.*

*1.1The hours of operation will be independent as that of the organisation.*

*1.1.1The team will work Monday to Friday, 2hrs daily.*

*1.1.2. Further work can be completed on weekends depending on the team/member’s convenience.*

*1.2The bidder at the Request for Proposal (RFP) time should have adequate knowledge of computer handling (basic) and how the systems process takes place.*

*1.2.1Even he/she should know about how to use web-based applications.*

# *DESCRIPTION AND SCOPE OF WORK*

1. *The scope of the project is clear to give a simple and attractive application to simplify the work as well as to reduce the efforts of tourism department*
2. *In this application we are able to save the database of all the archaeological places, and tourist data.*
3. *The description of archaeological places consists of distance from the main city, accommodation facilities, nearby places to visit.*

# *DELIVERABLES*

*Overall the developed software provides service to tourist to access all the information about archaeological places which includes the distance from the main city, accommodation facilities mentioning their charges and available services, and nearby places to visit. The appropriate date when we can deliver the system is at the end of the month of April. Initial idea will remain the same and same is true for core functionalities that we are going to provide in it.*

|  |  |
| --- | --- |
| *January* | *Planning and Project outlining* |
| *February* | *Data gathering and DB* |
| *March* | *Making of the software* |
| *April* | *Integrate software with GUI* |
| *April* | *Testing and final debugging* |

# *APPROACH AND METHODOLOGY*

*1) The Approach that will be taken is as described in the scope of work. The development of the “ASI Informatory” system by introducing the scope of the system i.e. what is the type of service provided and to whom it is useful.*

*2 Data collection, cleaning, formatting, visualization, feature engineering forms the part of analysis. The database designing and front-end development forms the part that converts that analysis into statistics.*

*3) The requirement for this scope defined, this would be just a general overview of requirements as in the development stage we may have some add-ones or would want to eliminate some, thus manipulating the requirement.*

*4) We are defining the actual back end and front-end requirements for the system. We visit to the location and a talk with the client for the purpose of actual analysis of stock cycle. The regression technique that we will choose depends on various aspects. There are various techniques that could be used.*

*4) This will help us to redefine the part of scope, providing a firm base for the system.*

*5) Starting with the implementation part of the database and the GUI. After the completion of this implementation, for ensuring the correctness and proper working system, testing the individual modules was done, from the group members.*

*6)Even the software was handled to a third party for the trial purpose and feedback was taken from them to actually know, if any changes are required in the system, to make it less error prone.*

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Assignment No: 2

**ASI Informatory**

**Project Feature Set Description**

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| --- | --- | --- | --- |
| Project Group Information | | | |
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**Table of Contents**

|  |  |  |
| --- | --- | --- |
| **Sr. No.** | **Title** | **Page** |
| 1 | Project Vision | **12** |
| 2 | Project Mission | **12** |
| 3 | Project Scope | **12** |
| 4 | Goals | **13** |
| 5 | Feature Set | **25** |
| 6 | Stakeholders | **25** |
| 7 | Acceptance Criteria | **26** |

# *PROJECT VISION*

*The project vision of “****ASI Informatory****” is for smooth administration and to get a brief idea about various Archaeological places in India.*

# *PROJECT MISSION*

*The project mission statement is aim of this project and what it trying to achieve. This is the system Project Mission.*

*This project aims to increase the value of Indian tourism by giving adequate information of various archaeological places. The software will be presented to the public in the form of a Mobile Application and websites which will be easily accessible on mobile.*

*Providing additional information about the best path, accommodation facilities at various places, categories places ranking wise and al so nearby places to visit.*

*The application keeps a backup of the different archaeological places data and detailed information about those places.*

*The application is fully optimized tourism website where it can handle images, Archaeological data, information about nearby places to visit etc.*

# *PROJECT SCOPE*

***“ASI Informatory”*** *will be made to only gives fair chance to all the tourist by providing detailed information about different places in India along with all the requirements needed for tourists. This system will al so give an idea about the Archaeological places statistics. As India is having great heritage of Archaeology, there are many more places to visit. so, this system helps to maintain that heritage by providing the information.*

*These are our project goals as defined by the team:*

* + ***Retain Archaeological Data***

1. *Archaeology can be a destructive science for the finite re sources of the archaeological record are lost to excavation. Therefore, archaeologists limit the amount of excavation that they do at each site and keep meticulous records of what is found.*
   * ***Rank Archaeological Places***
2. *To introduce criteria used by archaeologist and government to determine significan ce and invite tourist to compare their criteria and ranking with general criteria used by archaeologist. Since*archaeological sites*are finite re sources,*archaeologists*must make aful about* Rank*order. And the*importance*of the criteria for deciding*archaeological*significan ce*
   * ***Categorize Places***
3. *Archaeological tourism can categories all places as sociated with public archaeological promotion, including places like historical ,monuments ,aquariums zoos etc, which helps to tourists while visiting it.*
   * ***Process Visitor’s Queries***
4. *When visitors visit various archaeological places, everything about that place not needs to be good every place as sociated with some queries regarding accommodation facility, transportation problems etc such a query need to be process****.***
   * ***Generate Tourist Alert***
5. *Safety and security are vital to providing quality in tourism. More than any other economic activity, the success or failure of a tourism destination depends on being able to provide a safe and secure environment for visitors. Let For an instance, it’s important to alert to tourists about waves and storms while visiting the beaches.*
   * ***Create Visitors Analysis Report***
6. *It shows how many people are on your website, which places they like the most, what are different requirements of visitors, are their problems occurs while providing info to tourist such an analysis is made via this.*

# *GOALS*

|  |  |  |
| --- | --- | --- |
| *Goal-ID* | *Priority* | *Factors Addressed* |
| *1* | *1* | *Retain Archaeological Data* |
| *Target Audience* | *Indian tourism department.* |
| *Driver* | *To create record of different archaeological places* |
| *Description* | *Search for archaeological sites and collect information about the location* |
| *Response* | *To extract information about archaeological places* |
| *Open Issues* | 1. *How to find archaeological places?* 2. *What are values of different places ?* |

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| --- | --- | --- | --- | --- |
| *Goal 1 Description:* | | | | |
| *Specific Test* | | | | |
| *Is ‘What’ identifiable?* | *Is the ‘Why’ clear?* | *Can ‘Who’ be identified?* | *‘Where’ will it be performed?* | *‘Which’ re sources are needed?* |
| *Archaeological places* | 1. *To collect the data about archaeological places* 2. *To maintain heritage .* | *This database shall be used to provide details to the end users* | *It will be performed on the Admin panel or mobile application.* | *Archaeological survey of India.* |

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| --- | --- | --- |
| *Goal 1 Description:* | | |
| *Measurable Test* | | |
| *Is the end result quantifiable?* | *‘Figure’ of Measurement* | *Has the goal a clear end date/point?* |
| *Yes, it is necessary to retain archaeological data. It will specify the details of those places and shall justify the heritage over there.* | *Archaeological data which is actually present in database of ASI is directly measured* | *Tourists can get the accurate data.* |

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| --- | --- | --- | --- |
| *Goal 1 Description:* | | | |
| *ATTAINABLE Test* | | | |
| *What is your reaction to goal?* | *Does it feel realistic?* | *Is it effective?* | *Do you find it motivating?* |
| *It is the main goal of ASI Informatory .* | *At a glance, the goal seems to be realistic as we are getting actual and right data.* | *Yes it is, Since extracting exact information major concern* | *The goal is motivating because it is the main part of the system* |

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| *Goal 1 Description:* | | |
| *RELEVANT Test* | | |
| *Does it fit into the overall team / organization objective?* | *Taking overall fit is the timing appropriate?* | *Do you have sufficient re sources / budget to succeed?* |
| *Since it is the major process of the project.* | *Yes, Overall fit of the goal is the timing appropriate. Because ,we are collecting data directly from ASI official website.* | *To achieve the completion of this goal, the team will works on database system.* |

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| *Goal 1 Description:* | | |
| *TIME BOUND Test* | | |
| *Does it have a clear end date/point?* | *Is the focus clear so you can create an action plan?* | *Is its position on an Urgency/Importance grid clear?* |
| *We can not say clearly that the goal has end date/point . Because, we can additional information during excavation of site.* | * *The focus is to retain the details of archaeological places.* * *so that we can form the UI of the Informatory* | *Retaining the archaeological data is always the best service since we maintain heritage.* |

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| --- | --- | --- |
| *Goal-ID* | *Priority* | *Factors Addressed* |
| *2* | *1* | *Rank Archaeological Places* |
| *Target Audience* | *Tourists* |
| *Driver* | *To rank the archaeological places according to the previously visited tourist ranking.* |
| *Description* | *To populate the data about ranking of the archaeological places to visitors.* |
| *Response* | *Tourist can easily access the information about ranking of archaeological places.* |
| *Open Issues* | 1. *Is it authenticated as per government norms?* 2. *Where is best place to vacation in India?* |

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| --- | --- | --- | --- | --- |
| *Goal 2 Description:* | | | | |
| *Specific Test* | | | | |
| *Is ‘What’ identifiable?* | *Is the ‘Why’ clear?* | *Can ‘Who’ be identified?* | *‘Where’ will it be performed?* | *‘Which’ re sources are needed?* |
| *Archaeological places* | 1. *To collect the data about archaeological places* 2. *To Rank archaeological places based on tourist review.* | *This database shall be used to provide details to the end users according to ranking.* | *It will be performed on the Admin panel or mobile application by taking tourists review.* | *Tourist review on particular archaeological place.* |

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| *Goal 2 Description:* | | |
| *Measurable Test* | | |
| *Is the end result quantifiable?* | *‘Figure’ of Measurement* | *Has the goal a clear end date/point?* |
| *Yes, the end results are qualifiable. Because it will be useful for tourist to know places ranking wise.* | *Tourist review which is present in database of system.* | *Tourists can choose the archeological place to visit easily.* |

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| --- | --- | --- | --- |
| *Goal 2 Description:* | | | |
| *ATTAINABLE Test* | | | |
| *What is your reaction to goal?* | *Does it feel realistic?* | *Is it effective?* | *Do you find it motivating?* |
| *It is the important goal from tourist perspective.* | *At a glance, the goal seems to be realistic as we are getting the information of the places in India according to their ranking.* | *No, because our goal is totally based on tourist review and tourist review may change time to time.* | *The goal is motivating because it is going to be helpful for tourist.* |

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| *Goal 2 Description:* | | |
| *RELEVANT Test* | | |
| *Does it fit into the overall team / organization objective?* | *Taking overall fit is the timing appropriate?* | *Do you have sufficient re sources / budget to succeed?* |
| *Yes, it fits into the overall team / organization objective.* | *No, because of change in tourist review timing cannot be appropriate.* | *As we are working only on tourist review and it is only re source we required.* |

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| *Goal 2 Description:* | | |
| *TIME BOUND Test* | | |
| *Does it have a clear end date/point?* | *Is the focus clear so you can create an action plan?* | *Is its position on an Urgency/Importance grid clear?* |
| *No, it doesn’t have clear end point because tourist can review about places at any time.* | * *The focus is to rank the archaeological places.* * *so that we can form the UI of places bases on ranking.* | *Ranking the archaeological places is important for tourist to know archaeological places ranking wise.* |

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| *Goal-ID* | *Priority* | *Factors Addressed* |
| *3* | *1* | ***Categorize Places*** |
| *Target Audience* | *Tourist* |
| *Driver* | *To categories places.* |
| *Description* | *We categories the archaeological places according to the state in which they belong.* |
| *Response* | *Helpful to tourist.* |
| *Open Issues* | * *How places are categorised?* |

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| --- | --- | --- | --- | --- |
| *Goal 3 Description:* | | | | |
| *Specific Test* | | | | |
| *Is ‘What’ identifiable?* | *Is the ‘Why’ clear?* | *Can ‘Who’ be identified?* | *‘Where’ will it be performed?* | *‘Which’ re sources are needed?* |
| *Category of archaeological places* | *To create a*  *database of the*  *archaeological places state wise.* | *Database shall be used to provide information to the Users of the System.* | *Tourist department of government of India.* | *Information of different archaeological places in India in database.* |

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| *Goal 3 Description:* | | |
| *Measurable Test* | | |
| *Is the end result quantifiable?* | *‘Figure’ of Measurement* | *Has the goal a clear end date/point?* |
| *Yes, it is necessary to categories the places because it is going to helpful for tourist.* | * *Information present in database.* | *Yes, the goal has clear end point.* |

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| --- | --- | --- | --- |
| *Goal 3 Description:* | | | |
| *ATTAINABLE Test* | | | |
| *What is your reaction to goal?* | *Does it feel realistic?* | *Is it effective?* | *Do you find it motivating?* |
| *It is the goal for finding desired place to visit for tourists* | *At a glance, the goal seems to be realistic as we are categorising the places state wise.* | *Its feasibility is dependent on how well the model functions.* | *The goal is motivating because it is based on information in database.* |

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| --- | --- | --- |
| *Goal 3 Description:* | | |
| *RELEVANT Test* | | |
| *Does it fit into the overall team / organization objective?* | *Taking overall fit is the timing appropriate?* | *Do you have sufficient re sources / budget to succeed?* |
| *Yes, it fits because our goal helps to tourist to save time for choosing places to visit.* | *Yes, Overall fit of the goal is the timing appropriate because the information present in the database is only used.* | *yes, we have sufficient re sources/budget. Because, the team will work on database system.* |

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| *Goal 3 Description:* | | |
| *TIME BOUND Test* | | |
| *Does it have a clear end date/point?* | *Is the focus clear so you can create an action plan?* | *Is its position on an Urgency/Importance grid clear?* |
| *Yes, it has a clear end date/time.* | * *The focus is to categorize information in the database.* | *It is important to categorize places based on available information in the database* |

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| *Goal-ID* | *Priority* | *Factors Addressed* |
| *4* | *1* | ***Process visitor’s queries*** |
| *Target Audience* | *Admin* |
| *Driver* | *To process visitor’s queries* |
| *Description* | *To solve the queries with the help of expert system* |
| *Response* | *Tourist will be satisfied with the justification.* |
| *Open Issues* | * *How queries can be solved?* |

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| --- | --- | --- | --- | --- |
| *Goal 4 Description:* | | | | |
| *Specific Test* | | | | |
| *Is ‘What’ identifiable?* | *Is the ‘Why’ clear?* | *Can ‘Who’ be identified?* | *‘Where’ will it be performed?* | *‘Which’ re sources are needed?* |
| *Query asked by visitor* | *To solve the queries of visitor.* | *Database shall be used to provide information as per the query of Users of the System.* | *It will be performed online.* | *Information of different archaeological places in India in database including facilities provided, nearby places to visit, accommodation etc.* |

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| --- | --- | --- |
| *Goal 4 Description:* | | |
| *Measurable Test* | | |
| *Is the end result quantifiable?* | *‘Figure’ of Measurement* | *Has the goal a clear end date/point?* |
| *Yes, it is necessary to solve the queries because it is going to helpful for tourist to visit the particular place without any obstacle .* | * *Information present in database along with facilities provided, nearby places to visit, accommodation, navigation , ranking etc.* | *No. the goal is not clear end date/point. As it is dynamic.* |

|  |  |  |  |
| --- | --- | --- | --- |
| *Goal 4 Description:* | | | |
| *ATTAINABLE Test* | | | |
| *What is your reaction to goal?* | *Does it feel realistic?* | *Is it effective?* | *Do you find it motivating?* |
| *It is the goal to satisfy the user requirements by knowing his/her queries* | *The goal seems to be realistic as we are solving the user’s queries regarding archaeological places.* | *Yes, it is effective* | *The goal is motivating because it is based on detailed information in database.* |

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| *Goal 4 Description:* | | |
| *RELEVANT Test* | | |
| *Does it fit into the overall team / organization objective?* | *Taking overall fit is the timing appropriate?* | *Do you have sufficient re sources / budget to succeed?* |
| *Yes, it fits because our goal helps to tourist to save time by solving their queries.* | *Yes, Overall fit of the goal is the timing appropriate because the information present in the database is only used.* | *yes, we have enough re sources/budget. Because, the team will work on database system. For asking any query, visitor must have an account.* |

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| *Goal 4 Description:* | | |
| *TIME BOUND Test* | | |
| *Does it have a clear end date/point?* | *Is the focus clear so you can create an action plan?* | *Is its position on an Urgency/Importance grid clear?* |
| *No, it has a clear end date/time.* | * *The focus is to clarify visitor’s query regarding any archaeological place.* | *It is mandatory to solve the queries asked by tourist such that it can be useful to him/her.* |

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| *Goal-ID* | *Priority* | *Factors Addressed* |
| *5* | *1* | *Generate Tourist Alert* |
| *Target Audience* | *Tourist.* |
| *Driver* | *To alert the tourist.* |
| *Description* | *To alert tourist about waves, storms while visiting beaches.* |
| *Response* | *Safety and security are vital to quality in tourism.* |
| *Open Issues* | 1. *How to know about waves storms?* 2. *How to generate alert?* |

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| --- | --- | --- | --- | --- |
| *Goal 5 Description:* | | | | |
| *Specific Test* | | | | |
| *Is ‘What’ identifiable?* | *Is the ‘Why’ clear?* | *Can ‘Who’ be identified?* | *‘Where’ will it be performed?* | *‘Which’ re sources are needed?* |
| *Alert* | 1. *To know the information about storms and waves at various places* | *some expert system will be used to generate alert.* | *It will be performed on the Admin panel or mobile application.* | *Alerts from weather department.* |

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| *Goal 5 Description:* | | |
| *Measurable Test* | | |
| *Is the end result quantifiable?* | *‘Figure’ of Measurement* | *Has the goal a clear end date/point?* |
| *Yes, it is necessary to alert tourist. Because tourist safety comes first .* | *Information given by weather department.* | *Tourists can get alert at any point of time.* |

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| --- | --- | --- | --- |
| *Goal 5 Description:* | | | |
| *ATTAINABLE Test* | | | |
| *What is your reaction to goal?* | *Does it feel realistic?* | *Is it effective?* | *Do you find it motivating?* |
| *It is the main goal of ASI Informatry.* | *At a glance, the goal seems to be realistic as we are getting actual and right data from weather department.* | *Its feasibility is dependent on how well the model functions* | *The goal is motivating because it is the main part of the system.* |

|  |  |  |
| --- | --- | --- |
| *Goal 5 Description:* | | |
| *RELEVANT Test* | | |
| *Does it fit into the overall team / organization objective?* | *Taking overall fit is the timing appropriate?* | *Do you have sufficient re sources / budget to succeed?* |
| *Yes, it fits into overall team/organization objective, since it is the major process of the project.* | *Yes, Overall fit of the goal is the timing appropriate. Because ,we are collecting data directly from weather department .* | *To achieve the completion of this goal, the team will works on information provided by weather department.* |

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| --- | --- | --- |
| *Goal 5 Description:* | | |
| *TIME BOUND Test* | | |
| *Does it have a clear end date/point?* | *Is the focus clear so you can create an action plan?* | *Is its position on an Urgency/Importance grid clear?* |
| *We can not say clearly that the goal has end date/point . Because, we can additional information during every point.* | * *The focus is to provide safety for tourist.* | *Yes, because safety and security are important to providing quality in tourism .* |

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| --- | --- | --- |
| *Goal-ID* | *Priority* | *Factors Addressed* |
| *6* | *1* | ***Create Visitors Analysis Report*** |
| *Target Audience* | *Visitor.* |
| *Driver* | *To create visitor’s analysis report.* |
| *Description* | *Analysis report includes which places tourist like the most, what are different requirements of visitors, problems occurs while providing information to tourist* |
| *Response* | *It will be helpful for visitors for trip planning.* |
| *Open Issues* | 1. *How to create analysis report?* 2. *How to promote visitor to make analysis report?* |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Goal 6 Description:* | | | | |
| *Specific Test* | | | | |
| *Is ‘What’ identifiable?* | *Is the ‘Why’ clear?* | *Can ‘Who’ be identified?* | *‘Where’ will it be performed?* | *‘Which’ re sources are needed?* |
| *Tourist analysis report.* | 1. *To collect the data about mostly liked places, problems occurs during travelling* | *This analysis report stored to database shall be used to provide details to the end users.* | *It will be performed on the Admin panel or mobile application.* | *Visitors login .* |

|  |  |  |
| --- | --- | --- |
| *Goal 6 Description:* | | |
| *Measurable Test* | | |
| *Is the end result quantifiable?* | *‘Figure’ of Measurement* | *Has the goal a clear end date/point?* |
| *Yes, it is necessary. Because this report is goining to helpful for another visitors.* | *Analysis report taken from visitors.* | *Tourist can give analysis report at any point of time .* |

|  |  |  |  |
| --- | --- | --- | --- |
| *Goal 6 Description:* | | | |
| *ATTAINABLE Test* | | | |
| *What is your reaction to goal?* | *Does it feel realistic?* | *Is it effective?* | *Do you find it motivating?* |
| *It is the important goal in ASI Informatory.* | *At a glance, the goal seems to be realistic as we are getting actual and right data from tourist analysis report.* | *Yes it is, Since extracting exact information major concern* | *The goal is motivating because it is the important part of the system* |

|  |  |  |
| --- | --- | --- |
| *Goal 6 Description:* | | |
| *RELEVANT Test* | | |
| *Does it fit into the overall team / organization objective?* | *Taking overall fit is the timing appropriate?* | *Do you have sufficient re sources / budget to succeed?* |
| *Since it is the major process of the project.* | *Yes, Overall fit of the goal is the timing appropriate. Because ,we are collecting data directly from tourist.* | *To achieve the completion of this goal, the team will works on analysis report provided by tourist.* |

|  |  |  |
| --- | --- | --- |
| *Goal 6 Description:* | | |
| *TIME BOUND Test* | | |
| *Does it have a clear end date/point?* | *Is the focus clear so you can create an action plan?* | *Is its position on an Urgency/Importance grid clear?* |
| *We cannot say clearly that the goal has end date/point. Because, we can additional information during every analysis report.* | * *The focus is to provide experiences of previously visited tourist to know another visitors’ problems occurs during their trip.* | *Yes , because it is going to helpful for another visitors to make their trip without any obstacles.* |

# *FEATURE SET*

|  |  |
| --- | --- |
| *Feature-ID* | *Feature Description* |
| *1* | ***Providing detailed information about archaeological data.*** |
| *2* | ***Rank archaeological places according to tourists review.*** |
| *3* | ***Categorize the archaeological places based on state.*** |
| *4* | ***Useful to retaining archaeological data.*** |
| *5* | ***The system will save unnecessary efforts for searching for place.*** |
| *6* | ***Ask for visitors quarries and answer these quarries with the help of expertise.*** |
| *7* | ***The system is simple and user friendly.*** |

# *STAKEHOLDERS*

|  |  |  |  |
| --- | --- | --- | --- |
| *Stakeholder* | *Concerns* | *Quadrant* | *Strategy/Benefits* |
| *Tourists/Visitors* | *Getting best services from software* | *Key player* | *Efficient to al for reducing unnecessary efforts for searching places to visit.* |
| *Tourism department of India.* | *Collaborate with system to provide information about places.* | *Keep informed.* | *To increase the importance of Indian tourism.* |
| *Expertise* | *To solve visitors’ quarries* | *Key Player* | *Satisfy the visitors by solving their quarries based on their knowledge* |
| *Excavation team* | *To provide data to the system.* | *Key Player* | *It helps us to add new data.* |
| *Developer* | *Concerned with accurate and enough information about archaeological places in India.* | *Key player* | *Gather information of all aspects and use it with proper collaboration in order to developed well organized software.* |

# *ACCEPTANCE CRITERIA*

*This is the deliverance acceptance report:*

|  |  |  |
| --- | --- | --- |
| *Item* | *Concerns* | *Accepted / Rejected* |
| *Vision Definition* | *To retain archaeological data.* | *Accepted* |
| *Mission Definition* | *To generate the guidance for the tourists who visit archaeological places by providing all necessary information.* | *Accepted* |
| *Goals* | *Save unnecessary efforts for of visitors searching for place****.*** | *Accepted* |
| *Feature Definitions* | *To produce tourist analysis report.* | *Accepted* |
| *Deliverables definition* | *Give time to time updates of the system .* | *Accepted* |

**T.Y. B. Tech.**

**CS 3001: software Engineering Laboratory**

Assignment No: 3

**ASI INFORMATORY**

**System Requirement Specification**

|  |  |  |  |
| --- | --- | --- | --- |
| Project Group Information | | | |
| Roll. No. | **Gr. No.** | **Name** | **Roles** |
| 16 | **161176** | **Radhika Dusane** | **Designer** |
| 24 | **161190** | **Supriya Khedkar** | **Developer** |
| 38 | **161687** | **Dipti Pharate** | **Tester** |

**Approved By: Prof.Dr.Mahesh Dube**

**Academic Year: 2018-19 Semester: II**

**Table of Contents**

|  |  |  |
| --- | --- | --- |
| **Sr. No.** | **Title** | **Page** |
| 1 | Introduction | **30** |
| 2 | Terms of Reference | **31** |
| 3 | Problem Description | **32** |
| 4 | Functional Hierarchy | **35** |
| 5 | User Interfaces | **37** |
| 6 | Hardware Interfaces | **38** |
| 7 | software Interfaces | **38** |
| 8 | Logical Databases | **38** |
| 9 | Non-Functional Requirements | **39** |

# INTRODUCTION

*software Requirements Specification (SRS) provides an overview of the purpose, scope, definitions, acronyms, abbreviations, references, hardware and software requirements, non-functional requirements, user interfaces along with functional hierarchy. The purpose of this document is to present a detailed description of the ASI Informatory.*

|  |  |
| --- | --- |
| ***Item*** | ***Description*** |
| ***Purpose*** | |  | | --- | | *To write the System Requirement Specifications of the ASI Informatory. It gives an overview of the functionality of the product. It describes the informal requirements and is used to establish a context for the technical requirements specification. It al so defines the goals and their role in the system.* | |
| ***Audiences*** | *The tourists who are willing to visit various archaeological places and having android phone to search places.* |
| ***SRS Scope*** | *This document gives the details about software and hardware specifications. It gives an overview of the functionalities and its hierarchy. All non-functional requirements are stated in this text. The user interfaces have been defined in this document* |
| ***Project Scope*** | *ASI Informatory provides the solution for tourists by publishing the mobile application which works for improvement of Indian tourism. The system shall provide the users with specific details of archaeological places near in and around their area. The following are the goals*  *1****.*** *Retain Archaeological Data:*  *The archaeological details are filled in the database with authenticity and records are created.*  *2**Rank Archaeological Places:*  *Places rank is created with tourist comfort chart so that user can get proper information about that places.*  *3.**Categorize Places:*  *Places are categorized according to tourists choice like historical places, mountains beaches etc.*  *4.**Process Visitor’s Queries:*  *It shows how many people are on your website, which places they like the most.*  *5****.*** *Generate Tourist Alert:*  *Generation of alert among tourists is very important in order to provide safety and security about risky places.*  *6****.*** *Create Visitors Analysis Report:*  *Recommend the best fit archaeological place on the basis of analysis of tourists report.* |

***References:***

*1. Statement of Work*

*2. Feature Set Document*

# TERMS OF REFERENCE

# *2.1Background:*

*At present there is need of providing information to tourists which helps to increase the tourism in India. so ASI Informatory is the platform to provide appropriate facilities to the tourists and helps them during journey. We made system to,*

1. *ASI system retain archaeological data and store it to database.*
2. *In ASI, tourists have to search for places they want to visit accordingly they get information.*
3. *ASI needs of data of places and actual navigation system for tourists.*

# *2.2 Objective:*

*The main objective of this proposal is to help the tourists by facilitating them with their basic needs. The system shall provide archaeological information regarding their categorise. It shall provide the information of places and recommend the best fit place for the tourists. The system shall be open source and can be used by multiple users.*

# *2.3 Issues:*

1. *Efficiency – Efficiency of the algorithm and its outcome to search and sort courses as per ratings.*
2. *Relevance – Proving relevance to stakeholders.*
3. *Effectiveness – Exact outputs of the project and realization of benefits.*
4. *Impact – The number of tourists visit to places should be large, the need for better systems exists.*
5. *Sustainability – The project will be sustainable after the benefits are disclosed in the market.*

# 2.4 Methodology:

1. *Information gathering about archaeological places and creating catalogue is first step of implementation.*
2. *Stakeholder will be involved in every step of the development.*
3. *Time requirement for planning, designing and implementation is almost 45 days.*
4. *The information will be gathered from survey and online websites.*
5. *Domain information gathering, planning, formatting, UI design, backend design and web services will be done in design and development phase.*

**2.5Expertise:**

|  |  |
| --- | --- |
| ***Name*** | ***Roles*** |
| *Radhika Dusane* | *Developer* |
| *Supriya Khedkar* | *Designer* |
| *Dipti Pharate* | *Tester* |

**2.6 Reporting**:

1. *Reports inform time to time progress of the system.*
2. *Timely report should be given to the company according to the schedule of the deliverables.*
3. *Computer software programmers to be used/ Submission dates*
4. *People responsible for reporting and approving*
5. *Table of contents for project reports Rules for composing annexes*
6. *Report templates/ The language to be used in*

**2.7Work Plan**:

*Completion of project requires work plan strategy. The actions need to be taken to start, implement and complete within a specified time and defined budget are determined here.*

|  |  |
| --- | --- |
| ***Details*** | ***Month*** |
| ***Statement of Work*** | *February* |
| ***Feature Set Document*** | *February* |
| ***System Requirement Specification*** | *February* |

# PROBLEM DESCRIPTION

|  |  |
| --- | --- |
| 1. ***The problem of*** | 1. *There are various Archaeological places and tourism facilities are available but those are unknown to people.* 2. *Tourists are always searching for best places to visit.* 3. *There will be less informative websites are available, so it become difficult for tourists during journey.* 4. *Tourist can go but it become time consuming activity without searching for place before knowing complete information.* 5. *User may not know where to find the details about places.* |
| 1. ***Affects*** | * *Management Team* * *Users* * *Visitors* * *Tourists.* |
| 1. ***The impact of which is*** | * *Places May get ignored by tourists although they are best to visit* * *Tourists can not get accurate information about places.* * *There are many archaeological places, to choose an appropriate place to visit.* * *Users will not be satisfied with services of archaeological places* |
| 1. ***A successful solution would*** | * *The system shall provide archaeological places list along with their ranking and facilities available at the places.* * *It shall capture places structure, distance from main cities, and prepare the reports which helps to tourists.* * *It shall provide facilitates depending upon the place chosen by the tourists, so that end user must have transparency about the services* * *The system shall provide overview of all the archaeological places in nearby area.* * *It shall recommend the best fit archaeological according to the tourists’ ratings.* |

|  |  |
| --- | --- |
| **For** | **The Tourists and Tourism management team.** |
| **Who** | * Tourists management team needs the platform which make the effective communication between users. * Framework helps to tourists in order to save time while visiting places. * The people who guide the tourists. * Centralized platform for crazy people who wants to visit different places. |
| **The ASI Informatory System** | Is an android application and web-based Service provider to al. |
| **That** | * The user of this application can search for nearest place to visit and details like list of distance, facilities, amenities in the respective tourists place. * The system shall classify places on the basis of their structural status. * Provide information of places with respect to their characteristics and classification. * Provide the tourist services and improve their journey plan * Recommend the users the best fit place as per the catogry of place. * It shall provide best possible archaeological place according to the services required to the tourists and facilities available at tourists’ place. |
| **Unlike** | visiting each and every tourists place without knowing information is a very time consuming task. |
| **Our product** | ASI Informatory. |

# *FUNCTIONAL HIERARCHY*

|  |  |  |  |
| --- | --- | --- | --- |
| 1. ***Goal-ID*** | ***1*** | *Retain Archaeological Data* | ***Description*** |
| ***Objective ID*** | *1* | *Create record of different places.* | |
| *Process ID: 1* | *Accumulate places Information* |
| *Process ID: 2* | *Check System Authenticity.* |
| ***Objective ID*** | *2* | *Launch places according categorize* | |
| *Process ID: 1* | *Assign places Privileges* |
| *Process ID: 2* | *Release places according to ratings* |

|  |  |  |  |
| --- | --- | --- | --- |
| ***Goal-ID*** | ***2*** | ***Rank Archaeological Places*** | ***Description*** |
| ***Objective ID*** | *1* | *Rank places* | |
| *Process ID: 1* | *Create tourists’ ratings* |
| *Process ID: 2* | *Register rating features* |
| ***Objective ID*** | *2* | *Analysis On ratings* | |
| *Process ID: 1* | *Gather Ratings* |
| *Process ID: 2* | *Generate total rating counts* |

|  |  |  |  |
| --- | --- | --- | --- |
| ***Goal-ID*** | ***3*** | ***Categorize Places*** | ***Description*** |
| ***Objective ID*** | *1* | *Classify Archaeological places* | |
| *Process ID: 1* | *Certify categorize .* |
| *Process ID: 2* | *Classify into different class* |
| ***Objective ID*** | *2* | *Search for category* | |
| *Process ID: 1* | *Identify right category.* |
| *Process ID: 2* | *Show the places according to category.* |

|  |  |  |  |
| --- | --- | --- | --- |
| ***Goal-ID*** | ***4*** | ***Process Visitor’s Queries*** | ***Description*** |
| ***Objective ID*** | *1* | *Search Visitors Queries* | |
| *Process ID: 1* | *Gather Information about queries* |
| *Process ID: 2* | *Obtain query type* |
| ***Objective ID*** | *2* | *Action on queries* | |
| *Process ID: 1* | *Classify queries.* |
| *Process ID: 2* | *Process on queries* |

|  |  |  |  |
| --- | --- | --- | --- |
| ***Goal-ID*** | ***5*** | ***Generate Tourist Alert*** | ***Description*** |
| ***Objective ID*** | *1* | *Generate Alert Data* | |
| *Process ID: 1* | *Fetch place wise data* |
| *Process ID: 2* | *See risk at that place* |
| ***Objective ID*** | *2* | *Analyse Risks* | |
| *Process ID: 1* | *Awareness Among tourists.* |
| *Process ID: 2* | *Give proper information.* |

|  |  |  |  |
| --- | --- | --- | --- |
| ***Goal-ID*** | ***6*** | ***Create Visitors Analysis Report*** | ***Description*** |
| ***Objective ID*** | *1* | *Take Tourists report* | |
| *Process ID: 1* | *Fetch Report data* |
| *Process ID: 2* | *Analysis on Data* |
| ***Objective ID*** | *2* | *Analysis on Report* | |
| *Process ID: 1* | *Make changes as per report.* |
| *Process ID: 2* | *Make system more efficient.* |

# 5.USER INTERFACES

|  |  |  |  |
| --- | --- | --- | --- |
| *UI-ID* | *UI Name* | *Type* | *Scope* |
| *1* | *Collect Archaeological Data* | *Form* | *The details of the places are recorded* |
| *2* | *Store the Collect Data* | *Input* | *These details of the places are stored in the database for record* |
| *3* | *Access Store Data* | *Navigation* | *Area/ place wants to visit are taken into consideration* |
| *4* | *Next Stage Usage* | *NL* | *All the information is important for selecting a place* |
| *5* | *Select Proper place* | *Command* | *The selection of place depend on tourist interest.* |
| *6* | *inform visitors* | *Command* | *The information about place details to tourist* |
| *7* | *Generate tourists alert* | *Command* | *Information about critical situation* |
| *8* | *Store place details* | *NL* | *The details of place store to the database* |
| *9* | *Give details to tourist* | *Navigation* | *Inform tourist about ticket details.* |
| *10* | *Generate tourist profile* | *NL* | *To verify the registered tourists* |
| *11* | *Next Stage Update* | *Navigation* | *All the details regarding the place.* |
| *12* | *Collect information about visitor’s queries* | *Form* | *This provides to the system ,the information about queries* |
| *13* | *Store to database* | *Form* | *The information about species store to database* |
| *14* | *Generate statistical data* | *NL* | *Generate statistical data.* |
| *15* | *Collect tourist report* | *Command* | *All the important information about tourist report* |
| *16* | *Analyse tourist report* | *Input* | *The details about report of tourists who visits the places* |
| *17* | *Collect data about nearby places* | *Navigation* | *The details about nearby places* |
| *18* | *Validate Data* | *Input* | *All the important information about places should be validated.* |
| *19* | *Store to database* | *Navigation* | *The details about tourist information are stored to database* |
| *20* | *Next Stage Update* | *Navigation* | *All the details regarding the place & further changes.* |
| *21* | *Retrieve data from database* | *Navigation* | *The details about places information are stored to database* |
| *22* | *Create login form* | *Form* | *Login form for the validated user* |
| *23* | *Give guidance* | *Navigation* | *Guide the tourists about places* |
| *24* | *Fetch all contains from database* | *Navigation* | *All data should be fetched* |

# 6.HARDWARE INTERFACES

|  |  |
| --- | --- |
| ***Profile*** | ***Description*** |
| ***Proces sor*** | ***Intel Pentium 5 1.7Ghz or more*** |
| ***RAM*** | ***512 MB or more*** |
| ***Server-Side Technology*** | * ***Database storage space:1 GB*** * ***Monitor of Re solution: 1024x768*** |
| ***Client-Side Technology*** | * ***Android Mobile (API>16)*** * ***Working internet connection.*** |
| ***External Devices*** | * ***Monitors*** * ***Mouse*** * ***Keyboards*** |
| ***Other*** | * ***or hard disk space*** |

# 7. SOFTWARE INTERFACES

|  |  |
| --- | --- |
| ***Profile*** | ***Description*** |
| ***Front-end Capabilities*** | ***Mobile Application,XML*** |
| ***Back-end Capabilities*** | ***Java,JSP,Servlet*** |
| ***Programming Languages*** | ***Java, HTML, CSS, JavaScript*** |
| ***Operating Environment*** | ***Android*** |
| ***software Platform*** | ***Android Application*** |
| ***Database Servers*** | ***XAMPP*** |
| ***Framework Re sources*** | ***JAX-RS*** |
| ***API (If Any)*** | ***>16*** |
| ***Other Services/Re sources*** | ***NA*** |
| ***Communication Interfaces*** | ***Email*** |

# 8.LOGICAL DATABASES

|  |  |  |
| --- | --- | --- |
| *Database Name* | *Parameter* | *Scope* |
| *Staff profile* | *Can didate ID, Name, Age, Address, email Id* | *Input data* |
| *Tourist details* | *Can didate ID, years of experience, academics achievements* | *Input data* |
| *Place data* | *Post ID, Salary, Hours of work* | *Updatable data* |
| *Place statistics* | *Test ID, time, subjects* | *Updatable data* |

# 9.NON-FUNCTIONAL REQUIREMENTS

* ***Reliability:***

*Specify the factors required to establish the required reliability of the software system at time of delivery. If you have MTBF requirements, express them here. This doesn’t refer to just having a program that does not crash. This has a specific engineering meaning.*

* ***Availability:***

*Specify the factors required to guarantee a defined availability level for the entire system such as checkpoint, recovery, and restart. This is somewhat related to reliability. some systems run only infrequently on-demand (like MS Word). some systems have to run 24/7 (like an e-commerce web site). The required availability will greatly impact the design. What are the requirements for system recovery from a failure? “The system shall allow victims to restart the application after failure with the loss of at most 12 characters of input”.*

* ***Security:***

*Specify the factors that would protect the software from accidental or malicious access, use, modification, destruction, or disclosure. Specific requirements in this area could include the need to:*

* 1. *Utilize certain cryptographic techniques*
  2. *Keep specific log or history data sets*
  3. *Assign certain functions to different modules*
  4. *Restrict communications between some areas of the program*
  5. *Check data integrity for critical variables*
* ***Maintainability:***

*Specify attributes of software that relate to the ease of maintenance of the software itself. There may be some requirement for certain modularity, interfaces, complexity, etc. Requirements should not be placed here just because they are thought to be good design practices. If someone else will maintain the system*

* ***Portability:***

*Specify attributes of software that relate to the ease of porting the software to other host machines and/or operating systems. This may include:*

* 1. *Percentage of components with host-dependent code*
  2. *Percentage of code that is host dependent*
  3. *Use of a proven portable language*
  4. *Use of a particular compiler or language subset*
  5. *Use of a particular operating system*
* ***Correctness****:*

*Extent to which program satisfies specifications, fulfils victim’s mission objectives*

* ***Efficiency*** *:*

*Amount of computing re sources and code required to perform function*

* ***Flexibility:***

*Effort needed to modify operational program*

* ***Interoperability:***

*Effort needed to couple one system with another*

* ***Reliability****:*

*Extent to which program performs with required precision*

* ***Reusability :***

*Extent to which it can be reused in another application*

* ***Testability :***

*Effort needed to test to ensure performs as intended.*

* ***Usability :***

*Effort required learning, operating, preparing input, and interpreting output.*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Characteristic** | **H/M/L** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** |
| 1 | Correctness | H |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | Efficiency | M |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | Flexibility | L |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 | Integrity/Security | H |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | Interoperability | L |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 | Maintainability | M |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | Portability | L |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 | Reliability | M |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 | Reusability | L |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | Testability | M |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 | Usability | H |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | Availability | H |  |  |  |  |  |  |  |  |  |  |  |  |

**T.Y. B. Tech.**

**CS 3001: software Engineering Laboratory**

Assignment No: 4

**ASI INFORMATORY**

**Feasibility Study Report**

|  |  |  |  |
| --- | --- | --- | --- |
| Project Group Information | | | |
| Roll. No. | **Gr. No.** | **Name** | **Roles** |
| 16 | **161176** | **Radhika Dusane** | **Designer** |
| 24 | **161190** | **Supriya Khedkar** | **Developer** |
| 38 | **161687** | **Dipti Pharate** | **Tester** |

**Approved By: Prof.Dr.Mahesh Dube**

**Academic Year: 2018-19 Semester: II**

**Table of Contents**

|  |  |  |
| --- | --- | --- |
| **Sr. No.** | **Title** | **Page** |
| 1 | Introduction | **43** |
| 2 | Description of Services | **43** |
| 3 | Technology Considerations | **44** |
| 4 | Feasibility Study Results | **44** |
| 5 | References | **45** |

# 1. INTRODUCTION

*“****ASI Informatory****” is a system which helps for tourist to search for best archaeological places in India. This system will help tourist to reduce their unnecessary efforts for searching for places. And al so system will alert tourist about storms ,waves while visiting beaches. System al so produces tourist analysis report which includes most likely places , problems occurs which will going to help another visitors. The system would aim to act as an effective means for the visitor who requires information about archaeological places.*

|  |  |
| --- | --- |
| *Item* | *Description* |
| *Scope of Study* | *“****ASI Informatory****”* *would aim to act as an effective means for the tourists who want to visit the archaeological places in India.* |
| *Audiences* | *1.Tourists*  *2.Expertise*  *3.Indian tourist department* |
| *Project Type* | *Medium scale, as the website provides satisfactory data and al so available everywhere.* |
| *Platform Details* | *The software platform of the system for front end is*   * *HTML* * *CSS* * *PHP*   *The software platform of the system for front end is*   1. *Database* |

# 2. DESCRIPTION OF SERVICES

|  |  |  |  |
| --- | --- | --- | --- |
| *Service -ID* | *Service Name* | *Audience* | *Scope* |
| *S-1* | *Retain archaeological data* | *Indian tourism department* | *To retain areological data in order to maintain heritage of that place.* |
| *S-2* | *Rank archaeological place* | *Tourists* | *To informed tourist about ranking of archaeological place.* |
| *S-3* | *Categorize places* | *Tourists* | *To categorize archaeological places state-wide.* |
| *S-4* | *Process Visitors Quarries* | *Admin* | *To satisfy the visitors by solving their quarries with the help of expertise.* |
| *S-5* | *Provide guide* | *Stakeholder* | *For the tourists to know in detail about wildlife in sanctuary* |
| *S-6* | *Create analysis report* | *Stakeholder* | *To get to know exact number of visitors and their feedback related to that place.* |

# 3.TECHNOLOGY CONSIDERATIONS

*This section should explain any considerations the organization must make with regards to technology. Many new initiatives rely on technology to manage or monitor various business functions. New technology may be developed internally or contracted through a service provider and always result in costs which must be weighed in determining the path forward.*

|  |  |  |
| --- | --- | --- |
| *Current Technology* | | |
| *Type* | ***Parameter*** | ***Description*** |
| *Hardware* | *Proces sor* | *Intel i5* |
|  | *RAM* | *8 GB* |
|  | *External device* | *2 TB* |
| *software* | *Back-end capabilities* | *PHP* |
|  | *Operating environment* | *Windows 10* |
|  | *Database servers* | *XAMPP* |
|  | *software platform* | *Micro soft windows* |

|  |  |  |
| --- | --- | --- |
| *Deployment Technology* | | |
| *Type* | ***Parameter*** | ***Description*** |
| *Hardware* | *Proces sor* | *Intel i5* |
|  | *RAM* | *8 GB* |
|  | *External devices* | *2 TB* |
| *software* | *Back end capabilities* | *PHP* |
|  | *Operating environment* | *Windows 10* |
|  | *Database servers* | *XAMPP* |
|  | *software platform* | *Micro soft windows* |

# 4. FEASIBILITY STUDY RESULTS

|  |  |  |  |
| --- | --- | --- | --- |
| *Option* | *Outcome* | *Ranking* | *Discussion* |
| *Retain Archaeological Data* | *Expected* | *H* | *Places information will be available.* |
| *Unexpected* | *L* | *information is not sufficient for some users .* |
| *Rank Archaeological Places* | *Expected* | *H* | *Ranking is useful for the users to identify places.* |
| *Unexpected* | *L* | *Places Information is not available. This will not happen as record of every place ordered according to rank wise.* |
| *Categorize Places* | *Expected* | *M* | *Places are categorized according to their features. The interface will be useful for tourists.* |
| *Unexpected* | *L* | *some places are not included in that category.* |
| *Process Visitors queries* | *Expected* | *H* | *Visitors will be allowed to ask queries. Each query record will be stored for further use.* |
| *Unexpected* | *L* | *Unexpected queries are observed.* |
| *Generate Tourist alert* | *Expected* | *M* | *Notify users about Critical situations of that places.* |
| *Unexpected* | *L* | *Alert message are ignored by tourists* |
| *Create visitors Analysis Report* | *Expected* | *H* | *Reports should be analysed.* |
| *Unexpected* | *L* | *some reports get missed.* |

# 5. REFERENCES

1. *Statement of Work*
2. *Feature Set*
3. *System Requirement Specifications*

**T.Y. B. Tech.**

**CS 3001: software Engineering Laboratory**

Assignment No: 5

**ASI INFORMATORY**

**Project Plan Outline**

|  |  |  |  |
| --- | --- | --- | --- |
| Project Group Information | | | |
| Roll. No. | **Gr. No.** | **Name** | **Roles** |
| 16 | **161176** | **Radhika Dusane** | **Designer** |
| 24 | **161190** | **Supriya Khedkar** | **Developer** |
| 38 | **161687** | **Dipti Pharate** | **Tester** |

**Approved By: Prof.Dr.Mahesh. Dube**

**Academic Year: 2018-19 Semester: II**

**Table of Contents**

|  |  |  |
| --- | --- | --- |
| **Sr. No.** | **Title** | **Page** |
| 1 | Introduction | **47** |
| 2 | Project Milestones | **48** |
| 3 | Work Breakdown Structure | **49** |
| 4 | Project Communication | **49** |
| 5 | Activity Register | **50** |
| 6 | Task Prioritization | **53** |
| 7 | Risk Register | **53** |

# 1.INTRODUCTION

*The project,****ASI (Archaeological Survey of India) Informatory is a web-based application****which is easy to access and user friendly.*

* 1. *The purpose of this application is to give detailed information about the Archaeological Survey of India (ASI) under the Ministry of Culture.*
  2. *Users can get information about the monuments, excavations, museums, conservation and preservation of monuments. Details related to National Mission on Monuments and Antiquities, Central Archaeological Library, Institute of Archaeology, etc. are given. Details about ASI offices such as Agra Circle, Aurangabad circle, Bhopal circle, Delhi circle, etc. are available. List of World Heritage sites is al so given.*

|  |  |
| --- | --- |
| *Deliverables* | *Benefits* |
| *1. SOW* | *Gives an idea of what the system is.* |
| *2. Feature Set* | *Provides the set of features the system will provide.* |
| *3. SRS* | *Specifies the requirements for the system.* |
| *4. Feasibility Study* | *Gives an account of how feasible it is to use the system.* |
| *5. Project Plan* | *Will provide information on how the project will be executed.* |
| *6. Sprint Level Planning Activity* | *Planning will help in easy execution of the system.* |
| *7. Sprint Level Design Activity* | *Preparing the design will make the implementation faster because a blueprint will be available.* |
| *8. software Configuration Management Plan* | *It will make the execution of the software much easier as there is a plan in place.* |
| *9. Sprint Execution* | *The system will be available to use as early as possible.* |
| *10. Sprint Review* | *Fast review of the system so that so that errors can be removed as early as possible.* |

# 2.PROJECT MILESTONES

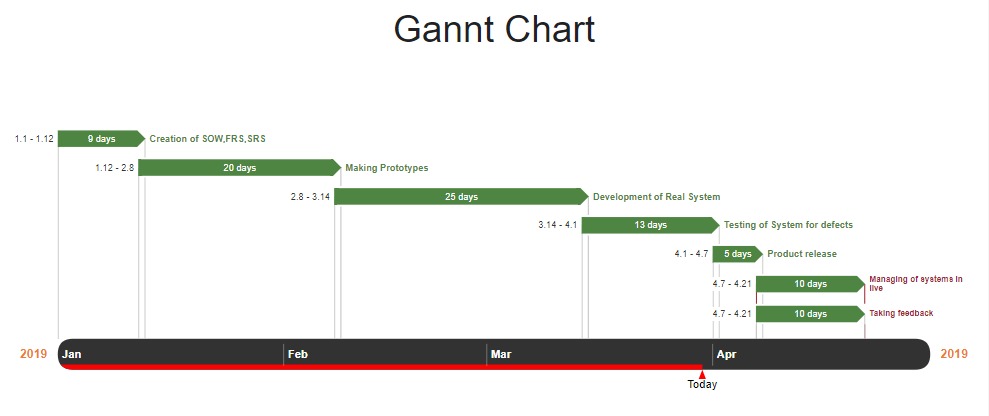
*Provide a summary list of milestones including dates for each milestone. Include an introductory paragraph in this section which provides some insight to the major milestones. This section should al so mention or discuss actions taken if any changes to the milestones are required.*

|  |  |  |
| --- | --- | --- |
| *Milestones* | *Phase* | *Description* |
| *Framework* | *Initial* | *To create the basic framework of the system* |
| *Design* | *Initial* | *To design the actual framework of the system* |
| *UI formation* | *Initial* | *To design the input information for the internal, as well as external stakeholders.* |
| *Form validation* | *Middle* | *To validate the input information filled by stakeholders* |
| *Scripting* | *Middle* | *Script language is a programming language that supports scripts: programs written for a special run-time environment.* |
| *Database management* | *Middle* | *A database management is system software for creating and managing databases.* |
| *Final checking* | *Final* | *To check the final working of the software* |

# 3.WORK BREAKDOWN STRUCTURE

*This section should discuss the WBS, WBS Dictionary, and Schedule baseline and how they will be used in managing the project’s scope. The WBS provides the work packages to be performed for the completion of the project. The WBS Dictionary defines the work packages. The schedule baseline provides a reference point for managing project progress as it pertains to schedule and timeline.*

|  |  |  |  |
| --- | --- | --- | --- |
| *WBS Package* | *Role* | *Description* | *Delivery Date* |
| *Documentation* | *Inception* | *Formulate SOW,SRS,FRS* | *20th January 2019* |
| *Designing* | *Elaboration* | *Create reference model of the system* | *11th February 2019* |
| *Development* | *Construction* | *Developing the system using suitable languages* | *3rdMarch2019* |
| *Testing* | *Construction* | *Finding and rectifying the defects in the system.* | *20t hMarch 2019* |
| *Product Release* | *Transition* | *Launching the working system* | *20st April 2019* |
| *Feedback* | *Transition* | *Taking feedback from the customers* | *25th April 2019* |

****

# 4.PROJECT COMMUNICATION

*The purpose of the Communications Management is to define the communication requirements for the project and how information will be distributed to ensure project success. You should give considerable thought to how you want to manage communications on every project. By having a solid communications management approach you’ll find that many project management problems can be avoided. In this section you should provide an overview of your communications management approach. Generally, the Communications Management Plan defines the following:*

*• Communication requirements based on roles*

*• What information will be communicated?*

*• How the information will be communicated?*

*• When will information be distributed?*

*• Who does the communication?*

*• Who receives the communication?*

*• Communications conduct*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| *Communication Type* | *Description* | *Frequency* | *Format* | *Participants/ Distribution* | *Deliverable* | *Owner* |
| *Weekly Status Report* | *Email summary of project status* | *Weekly* | *In Per son* | *Project Guide,*  *Project Team* | *Status Report* | *Project Manager* |
| *Weekly Project Team Meeting* | *Meeting to review action register and status* | *Weekly* | *In Per son* | *Project Team* | *Updated Action Register* | *Project Manager* |
| *Project Monthly Review (PMR)* | *Present metrics and status to team and spon sor* | *As Needed* | *In Per son* | *Project Guide, Team, and Stakeholders* | *Status and Metric Presentation* | *Project Manager* |
| *Project Gate Reviews* | *Present closeout of project phases and kick-off next phase* | *As Needed* | *In Per son* | *Project Spon sor, Team and Stakeholders* | *Phase completion report and phase kick-off* | *Project Manager* |
| *Technical Design Review* | *Review of any technical designs or work as sociated with the project* | *As Needed* | *In Per son* | *Project Team* | *Technical Design Package* | *Project Manager* |

# 5.ACTIVITY REGISTER

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***Activity Number*** | ***Activity Name*** | ***Activity description*** | ***Responsibility*** | ***Comments*** |
| *1* | *Prepare*  *Documentation* | 1. *Create Project Initiation Documents* | 1. *Project Manager is responsible for coordinating with the team.* | 1. *Meet Deadlines* |
| 1. *Documents: SOW, Feature Set and SRS* | 1. *WBS Package 1* |
| *2* | *Conceptualise Design* | 1. *Evaluate Feasibility* | 1. *Project Manager is responsible for execution of project planning phase.* | 1. *Quick Execution Required* |
| 1. *Develop Project Plan* | 1. *WBS Package 2* |
| *3* | *Collect Data* | 1. *Acquire Data from sources on the Internet* | 1. *Team Members are responsible for acquiring correct data* | 1. *WBS Package 2* |
| 1. *Important phase for smooth development* |
| *4* | *Developing System* | 1. *Implement the actual model* | 1. *Project Manager is responsible for delegating everyone with instructions for development.* | 1. *Development in Sprints* |
|  | 1. *WBS Package 3* |
| *5* | *Design UI* | 1. *Create User Interface* | 1. *Project Manager will oversee the UI creation activity.* | 1. *WBS package3* |
| 1. *Design UI to appropriately display the statistics* | 1. *The phase execution will have to run in parallel with development stage* |
| *6* | *Checking for bugs* | 1. *Unit and System Testing* | 1. *Project Tester will be in charge of creating test cases and checking for bugs* | 1. *Preparing Test Cases* 2. *WBS Package 4* |
| 1. *Debugging* |
| *7* | *Launching the web application* | 1. *Advertising System* | 1. *Place Team will be responsible for the marketing of the product.* 2. *Purchase and Place cell will al so share the responsibility.* | 1. *Good Marketing Strategies* 2. *WBS Package 4* |
| 1. *Finding Clients* |
| *8* | *Feedback of system* | 1. *Taking reviews from tourists* 2. *Implementing new features* | 1. *Project Manager will oversee the feedback and update activities.* | 1. *Understanding what changes are needed* 2. *WBS Package 6* |

# 6.TASKS PRIORITAZATION

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***Task is of high importance, with high urgency factor.***  *Must be done to day & to high standard.*  *Action ASAP* |  | ***High Importance*** | ***Low Importance*** | ***Task is of low importance, with high urgency factor.***  *These tasks need to be completed on time.*  *ONLY spend sufficient time on them as not important.*  *Don’t be diverted* |
| ***High Urgency*** | * ***Collect the data of different archaeological places in India.*** * ***Documentation initiation*** * ***Develop system*** | 1. ***Feedback of system*** 2. ***Inform tourist.*** |
| ***Task is of high importance, but has low urgency factor.***  *By nature long-term so need to:*   1. *Set target if none exists.* 2. *Break-up into chunks of work* | ***Low Urgency*** | * ***Design UI*** * ***Checking for bugs*** * ***Launching web application*** | 1. ***Suggestion of nearby archaeological places to visit*** | ***Task is both low in importance & urgency.***  *Discard as many of these tasks as possible because they cause great harm to your productivity.*  *Delegate if they develop another’s KSA’s.* |

# *RISK REGISTER*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ***ID*** | ***Risk Description*** | ***Likely Cause of Risk Occurring*** | ***Effect on Project*** | ***Phase Affected*** | ***Severity Level*** | ***Ability to Detect*** | ***Risk Rank*** |
| ***1*** | ***information about places is not correct*** | ***inadequate knowledge of details of the archaeological place*** | ***failure to give assurance about data*** | ***tourist*** | ***High*** | ***Moderate*** | ***Serious*** |
| ***2*** | ***tourist account is fake*** | ***wrong information of tourist*** | ***unnecessary assignment of guide*** | ***Database will be affected*** | ***High*** | ***Complex*** | ***Critical*** |
| ***3*** | ***categorization is not correct*** | ***CONFUSION WILL BE CREATED REGARDING PARTICULAR PLACE*** | ***number of tourist visitors will be affected*** | ***overall management team*** | ***High*** | ***Complex*** | ***Critical*** |
| ***4*** | ***Complaint/Issue Not solved*** | 1. ***Complaint Not Reached to Concerned Section*** 2. ***Common Issue Got Spammed Due to Other Messages*** | ***Failure to solve Complaints/Issues*** | ***Transition*** | ***Med*** | ***Moderate*** | ***Serious*** |
| ***5*** | ***Ambiguous User Profiles*** | 1. ***User Having More than One Role*** | ***Ambiguity in Profile Generation*** | ***Construction*** | ***Med*** | ***Easy*** | ***Modest*** |

**T.Y. B. Tech.**

**CS 3001: software Engineering Laboratory**

Assignment No: 6

**ASI Informatory**

**Project Backlog**

|  |  |  |  |
| --- | --- | --- | --- |
| Project Group Information | | | |
| Roll. No. | **Gr. No.** | **Name** | **Roles** |
| 16 | **161176** | **Radhika Dusane** | **Designer** |
| 24 | **161190** | **Supriya Khedkar** | **Developer** |
| 38 | **161687** | **Dipti Pharate** | **Tester** |

**Approved By: Dr.Mahesh.R.Dube**

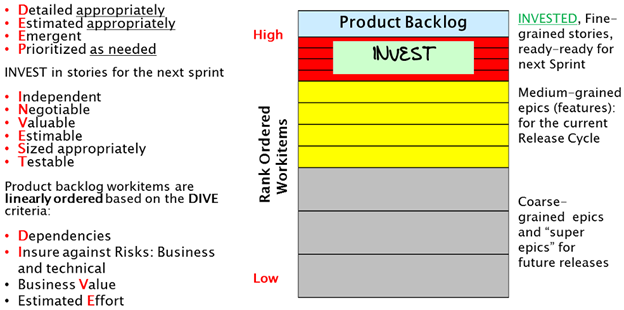
**Academic Year: 2018-19 Semester: II**

**Table of Contents**

|  |  |  |
| --- | --- | --- |
| **Sr. No.** | **Title** | **Page** |
| 1 | Introduction | **56** |
| 2 | Sprint Planning And Work-Item Granularity | **57** |
| 3 | Release Planning And Work Granularity | **58** |
| 4 | Product Planning And Work-Item Granularity | **58** |
| 5 | Product Backlog: Goals Granularity | **60** |

# 1.INTRODUCTION

*A product backlog stores, organizes and manages all work items that you plan to work on in the future. The key characteristics of a well-organized and managed product backlog are summarized in the image below. DEEP, INVEST and DIVE are meaningful words.*



*Figure 1: Characteristics of a Managed Product Backlog*

*The* ***granularity*** *or size of work items should be determined based on how far into the future you are planning a product, i.e., the planning horizon. It is the observation that the longer or shorter the planning horizon, the larger or smaller the work items. This makes sense as it takes a lot more effort to develop, specify and maintain a large number of small-grain work items compared to developing, specifying and maintaining a small number of large-grain work items. Smaller work items, stories, are typically developed by breaking down larger work items, epics. Stories are the unit of software design, development and value delivery.*

***DEEP product backlog***

*A product backlog may have several hundred or more work items, hence the acronym DEEP. Work items can be comprised of stories, defects and test sets. DEEP is acronym capturing the essence of the logical structure of product backlog.*

1. ***Detailed appropriately****: Work-items in the backlog are specified at an appropriate level of detail.*
2. ***Estimated appropriately****: Work-items in the product backlog are estimated appropriately.*
3. ***Emergent****: Product backlog is not frozen or static; it evolves or emerges on an on-going basis in response to product feedback, and changes in competitive, market and business. New backlog items are added, existing items are groomed (revised, refined, elaborated) or deleted or re-prioritized.*
4. ***Prioritized as needed****: Work-items in the backlog are linearly rank-ordered as needed.*

# 2.SPRINT PLANNING AND WORK-ITEM GRANURALITY

*If the planning horizon is the next, i.e., upcoming sprint or iteration (typically 2 to 4 weeks), each Work-items is small enough to fit in a single sprint, and is 100% ready (“ready-ready”) to be worked on, as indicated in Figure 1 – see the to p red-color region. A ready-ready story has already been Analysed with clear definition (User Role, Functionality, and Business Value) and as sociated Acceptance Criteria. Work-items planned for the next sprint are stories, defects and test sets. The Work-items in the next sprint have the highest rank order compared to Work-items in later sprints or later release cycles. I will soon explain how this rank ordering is done.*

*The rank order information is used to decide the order in which the team will undertake work on Work-items in a sprint backlog, and al so decide which incomplete Work-items to push out to the release or product backlog at the end of a sprint time-box.*

*Work-items in the next sprint collectively satisfy the well-known INVEST criteria; it is a meaningful English word, as well as an interesting acronym coined by Bill Wake. Its letters represent important characteristics of Work-items in the next sprint backlog. Stories in the next sprint backlog should be:*

* ***Independent of each other****: At the specification level stories are independent; they offer distinctly different functionality and don’t overlap. Moreover, at the implementation level these stories should al so be as independent of each other as possible. However, sometimes certain implementation-level dependencies may be unavoidable.*
* ***Negotiable****: Stories in the next sprint are always subject to negotiations and clarifications among product owner (business proxy) and the members of agile development team.*
* ***Valuable****: Each story for the next sprint offers clear value or benefit to either external users or customers (outside the development team), or to the team itself, or to a stakeholder. For most products and projects, most stories offer value to external users or customers.*
* ***Estimable****: From the specification of story itself, an agile team should be able to estimate the effort needed to implement the story; this estimate is in relative size terms (story points), and optionally, it can al so be in time units (such as ideal staff-hours or staff-days for the whole team). Thus, stories are estimated in story points, and al so often in ideal time units.*
* ***Sized Appropriately****: A simpler interpretation of this criterion is that each story is Small enough to be completed and delivered in a single sprint. The letter “S” can be taken to mean Sized Appropriately; specifically, each story should take no more than N/4 staff-weeks of team effort for an N-week long sprint. Thus, for a 2-week sprint, each story should take no more than 2/4 staff-week = 0.5 staff-week = 20 staff-hours of effort. A story substantially larger than 20 staff-hours of total effort should be treated as an epic and be broken down into smaller stories. For a 4-week sprint, each story should take no more than 4/4 staff-week = 1 staff-week = 40 staff-hours of effort. If a sprint backlog has a mix of stories that are small, medium or large size stories (their average far exceeds N/4 staff-weeks), the average cycle time across all stories will increase dramatically reducing the team velocity.*
* ***Testable****: Each story specification is very clear to be able to develop all test cases from its acceptance criteria (which is part of the specification).*

*Stories may be broken down into implementation tasks, such as Analysis, Design, Code Development, Unit Testing, Test Case Development, On-line Help, etc. These tasks need to be SMART:*

* + *S: Specific*
  + *M: Measurable*
  + *A: Achievable*
  + *R: Relevant*
  + *T: Time-boxed (typically small enough to complete in a single day)*

*If a story needs to take no more than N/4 staff-week of team effort (ex. 20 staff-hours for 2-week sprints), all SMART tasks in a story should add up to no more than N/4 staff-week of team effort. If you have 5 tasks, each task on an average should take 4 hours of ideal time effort or less. Stories and its SMART tasks for the next sprint are worth INVESTing in, as the return on that INVESTment is high because they are scheduled to be worked on and delivered as working software in the next sprint itself.*

# 3.RELEASE PLANNING AND WORK GRANURALITY

*If the planning horizon is an upcoming release cycle (typically 8 to 26 weeks, or 2 to 6 months long – consisting of several sprints), Work-items are “medium-grain” as shown in the middle yellow color region of Figure 1. Typically, many of these Work-items are epics; however, they should be still small enough to fit in a release cycle and can be completed over two or more sprints in a release cycle. These epics are typically called features or feature-epics. These feature-epics should still be specified with User Role, Action, Value and Acceptance Criteria formalism that is often used for specifying stories, but now you are capturing a larger functionality represented by a feature-epic. Feature-epics are divided into stories – small enough to fit in a sprint – before the sprint in which a story will be implemented.*

*Over the time horizon of an entire release cycle, INVESTing in stories for an entire release cycle has poor returns, because it takes a lot of effort to ensure that the INVEST criteria is being satisfied correctly for a large number of stories covering an entire release cycle, and those stories are much more likely to change over the release cycle spanning several sprints; so this kind of INVESTment may not yield expected results as stories will very likely change during an entire release cycle after they have been specified.*

***Feature-epics*** *in a release cycle can and should be estimated in relative size terms, but without expending the effort needed to break down all feature-epics in a release cycle into individual stories. This epic-level estimation can be done by comparing relative sizes of epics.*

*It still makes sense to rank order feature-epics in a release cycle to decide which ones will be scheduled in Sprint 1, 2, 3, and so on. However, this assignment may change as each sprint is completed and more information and learning emerge.*

# 4.PRODUCT PLANNING AND WORK-ITEM GRANURALITY

*If the product planning horizon is over multiple release cycles (typically 6 to 24 months) going beyond the current release cycle, Work-items are “****coarse-grain****” as shown in the bottom gray color region of Figure 1. These large epics or super epics require two or more release cycles to complete. These super epics may be described in plain English (bulleted text) or with screen mock-up or video or prototype or with any form of expression suitable to express the intent and value of super epics. These super epics are divided into feature-epics – small enough to fit in a single release cycle – before the release cycle in which that feature-epic will be implemented.*

*Over the time horizon of multiple release cycles, INVESTing in stories has even poorer returns compared to INVESTing in stories for a single release cycle. This kind of INVESTment will not yield expected results as stories are very likely to change over much longer duration of multiple release cycles.*

*4Large epics or super epics that need multiple release cycles to be implemented can and should be estimated in relative size terms, but without expending the effort needed to break down large epics into feature-epics, and breaking those, in turn, into stories.*

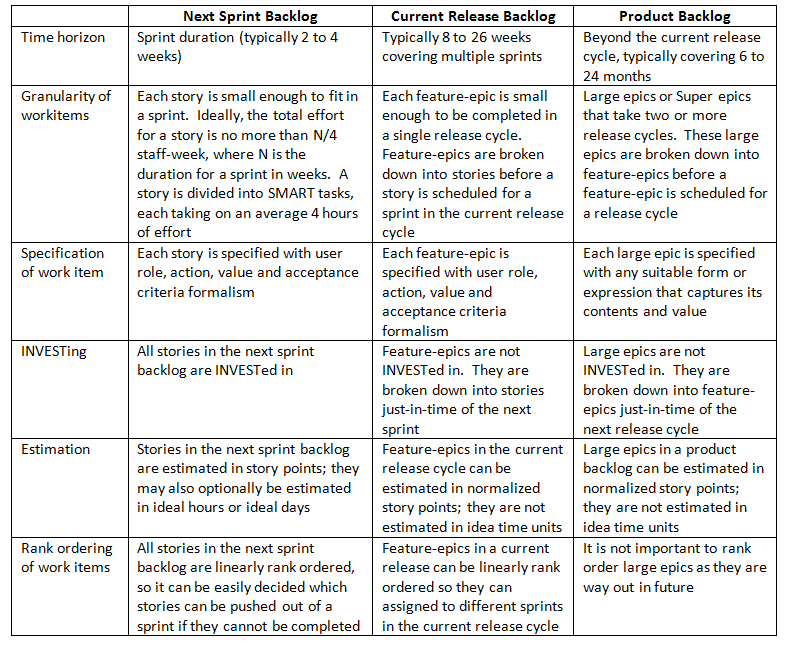
*DIVE the product backlog afully*

*There is rarely enough time or re sources to do everything. Therefore, agile teams must prioritize (rank-order, to be more precise) which stories to focus on and which lowest rank-order stories could be pushed out of scope when close to the end of a sprint. For agile development projects, you should linearly rank-order the backlog, rather than do coarse-grain prioritization where stories and epics are lumped into a small number of priority buckets, such as Low, Medium, High, Critical priorities. Linear rank ordering (i.e., 1, 2, 3, 4 ….n) avoids inflation of priority, keeps everyone honest, and forces decisions on what is really important. It discourages the “kid-in-a-can dy-shop” behaviour when the business side clamours that everything is of high-priority or of equal importance.*

*Note that epics and stories are conceptually different, and should not be mixed or aggregated while developing a rank order. An epic rank order is separate from a story rank order.*

*The responsibility of agile rank ordering is shared among all members of a team; however, the rank ordering effort is led by the product owner. Similar to DEEP, INVEST and SMART, DIVE is a meaningful English word, and al so an acronym. Product backlog items should be linearly ordered based on the DIVE criteria, which requires aful consideration of all four factors captured in the DIVE acronym:*

1. *Dependencies: Even after minimizing the dependencies among stories or epics (which is always a good thing to do), there may still be few unavoidable dependencies and they will have an impact on rank ordering. If Work-item A depends on B, B needs to be rank-ordered higher than A.*
2. *Insure against Risks: Business as well as technical risks*
3. *Business Value*
4. *Estimated Effort*



# 5.PRODUCT BACKLOG: GOALS GRANURALITY

|  |  |
| --- | --- |
| *Goal-ID-1* | *Retain Archaeological Data* |
| *Purpose* | *To collect the data about archaeological places.*  *To maintain heritage. Archaeological data which is actually present in database of ASI is directly measured. so, Tourists can get the accurate data* |
| *Target Audience* | *Indian tourism department.* |
| *Status* | *On-going* |
| *Task Description* | *1.To create a UI for Archaeological data.* |
|  | *2. To validate the information of archaeological data.* |
|  | *3. To create database as per the provided information* |
|  | *4.Validate information in database.* |
|  | *5. To get the descriptive information according to archaeological places category* |
|  | *6.To get accurate information.* |
|  | *7.To collect important information.* |
|  | *8.To maintain the importance of that places* |
|  | *9.To maintain the accurate data in database* |
|  | *10.Display data to visitor* |
|  | *11.Retain archaeological data* |
|  | *12.To maintain the importance of that place.* |
|  | *13. To collect the information of various different archaeological places in the India* |
|  | *14. To populate the data about ranking of the archaeological places to visitors* |
|  | *15. To access the information* |
|  | *16.It is useful for tourists and tourism management system.* |

|  |  |
| --- | --- |
| *Goal-ID-2* | *Rank archaeological places* |
| *Purpose* | *To rank the archaeological places according to the previously visited tourist review and get to know about each archaeological place accordingly* |
| *Target Audience* | *Tourists* |
| *Status* | *On-going* |
| *Task Description* | *1. To collect the information of various different archaeological places in the India* |
|  | *2.To validate the information by tourist* |
|  | *3.To populate the data about ranking of the archaeological places to visitors.* |
|  | *4. To maintain detailed record of information* |
|  | *5. To get accurate information.* |
|  | *6.Retain archaeological data* |
|  | *7.It is useful for tourists and tourism management system* |
|  | *8. To validate the detailed information.* |
|  | *9. To give updates about each place according to its category* |
|  | *10. To choose the particular place to visit easily* |
|  | *11. To take review of tourists for further categorization* |
|  | *12.Decide criteria for ranking* |
|  | *13.Select proper criteria for ranking.* |
|  | *14. To take review of tourists for further categorization* |
|  | *15. To satisfy Tourist with the justification.* |
|  | *16.To access the information about ranking of archaeological places easily.* |

|  |  |
| --- | --- |
| *Goal-ID-3* | *Categorize Places* |
| *Purpose* | *To categorize different archaeological places in India* |
| *Target Audience* | *Stakeholder* |
| *Status* | *On-going* |
| *Task Description* | *1.To categorize the archaeological places according to the state in which they belong.* |
|  | *2. To validate the detailed information.* |
|  | *3. To choose the particular place to visit easily* |
|  | *4. To take review of tourists for further categorization* |
|  | *5. To access the information about ranking of archaeological places easily.* |
|  | *6.To validate data .* |
|  | *7. To access the information about ranking of archaeological places easily.* |
|  | *8.To verify information.* |
|  | *9. To give updates about each place according to its category* |
|  | *10. To choose the particular place to visit easily* |
|  | *11. To take review of tourists for further categorization* |
|  | *12.Decide criteria for ranking* |
|  | *13. To access the information about ranking of archaeological places easily.* |
|  | *14. To validate the detailed information.* |
|  | *15.Select proper criteria for ranking.* |
|  | *16. To take review of tourists for further categorization* |

|  |  |
| --- | --- |
| *Goal-ID-4* | *Process visitor’s queries* |
| *Purpose* | *To process visitor’s queries* |
| *Target Audience* | *Admin* |
| *Status* | *On-going* |
| *Task Description* | *1.To solve the queries with the help of expert system* |
|  | *2. To process the queries* |
|  | *3. To check the requirement of the tourists* |
|  | *4. To access the information about ranking of archaeological places easily.* |
|  | *5.To verify information.* |
|  | *6. To give updates about each place according to its category* |
|  | *7. To choose the particular place to visit easily* |
|  | *8. To take review of tourists for further categorization* |
|  | *9.Decide criteria for ranking* |
|  | *10.To validate data .* |
|  | *11. To access the information about ranking of archaeological places easily.* |
|  | *12.To verify information.* |
|  | *13. To give updates about each place according to its category* |
|  | *14. To choose the particular place to visit easily* |
|  | *15. To take review of tourists for further categorization* |
|  | *16. To access the information about ranking of archaeological places easily.* |

|  |  |
| --- | --- |
| *Goal-ID-5* | *Generate Tourist Alert* |
| *Purpose* | *To alert the tourist.* |
| *Target Audience* | *Tourists* |
| *Status* | *On-going* |
| *Task Description* | *1.To provide weather details to tourists* |
|  | *2 To alert tourist about waves, storms while visiting beaches* |
|  | *3.To make tourist’s journey more safe* |
|  | *4. To notify tourists about different ways to that place* |
|  | *5. To choose the particular place to visit easily* |
|  | *6. To take review of tourists for further categorization* |
|  | *7.Decide criteria for ranking* |
|  | *8.To validate data .* |
|  | *9. To access the information about ranking of archaeological places easily.* |
|  | *10.To verify information.* |
|  | *11.To solve the queries with the help of expert system* |
|  | *12. To process the queries* |
|  | *13. To check the requirement of the tourists* |
|  | *14. To access the information about ranking of archaeological places easily.* |
|  | *15.To verify information.* |
|  | *16. To give updates about each place according to its category* |

|  |  |
| --- | --- |
| *Goal-ID-6* | *Create Visitors Analysis Report* |
| *Purpose* | *To create visitor’s analysis report.* |
| *Target Audience* | *Visitor* |
| *Status* | *On-going* |
| *Task Description* | *1.To create visitor’s profile* |
|  | *2.To get feedback from tourist/visitor* |
|  | *3. To analyse the visitor’s opinion* |
|  | *4. To get reviews for particular place he/she visited* |
|  | *5.To check the reviews.* |
|  | *6.To store database.* |
|  | *7.Decide criteria for ranking* |
|  | *8.To validate data .* |
|  | *9. To access the information about ranking of archaeological places easily.* |
|  | *10.To verify information.* |
|  | *11.To solve the queries with the help of expert system* |
|  | *12. To process the queries* |
|  | *13. To check the requirement of the tourists* |
|  | *14. To access the information about ranking of archaeological places easily.* |
|  | *15.To verify information.* |
|  | *16. To give updates about each place according to its category* |

**T.Y. B. Tech.**

**CS 3001: software Engineering Laboratory**

Assignment No: 7

**ASI INFORMATORY**

**User Story Cards**

|  |  |  |  |
| --- | --- | --- | --- |
| Project Group Information | | | |
| Roll. No. | **Gr. No.** | **Name** | **Roles** |
| 16 | **161176** | **Radhika Dusane** | **Designer** |
| 24 | **161190** | **Supriya khedkar** | **Developer** |
| 38 | **161687** | **Dipti pharate** | **Tester** |

**Approved By:**

**Prof.Dr.Mahesh Dube sir**

**Academic Year: 2018-19 Semester: II**

**Table of Contents**

|  |  |  |
| --- | --- | --- |
| **Sr. No.** | **Title** | **Page** |
| 1 | Introduction | **67** |
| 2 | Epics and User Stories | **69** |
| 3 | User Stories-Goal 1 | **69** |
| 4 | User Stories-Goal 2 | **73** |
| 5 | User Stories-Goal 3 | **77** |
| 6 | User Stories-Goal 4 | **81** |
| 7 | User Stories-Goal 5 | **84** |
| 8 | User Stories-Goal 6 | **88** |

# 1.INTRODUCTION

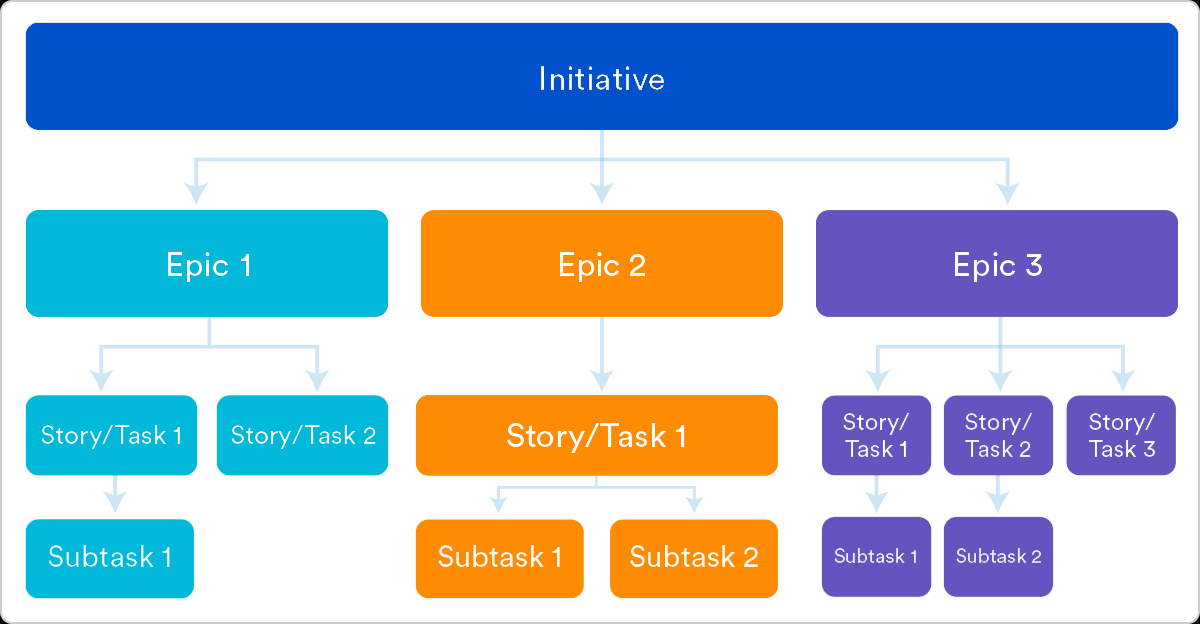
*What does define customer problems look like in an agile world? The agile manifesto reminds us that we don’t always have to do it the “traditional” way. As product managers, we should be doing whatever is required to tell the story of the customer. Try different things: experiment, explore, then do what works best for you and your team in the context that you might be working in.*

* *If it means you can have several discussions and sketch something on a bit of paper – then do it.*
* *What if you could get everyone (including the customer) in a room and do a user story mapping exercise? If that communicates the problems well, then you don’t need to go much further.*
* *Or what if you can visit the customer and watch them use your product in context? Could you get your engineers and designers to sit next to the customer to listen to and observe their problems?*
* *Instrumenting your product with analytics hooks give you aggregate, concrete data about how customers as a whole are using your product.*
* *Another option would be to grab the product triad (a product manager, engineer and a designer) for a quick stand-up to sketch, discuss and make some quick decisions on the spot.*
* *Need to explore some more? Try running a workshop where you gather key stakeholders and do lots and lots of white-boarding or even paper prototyping to dive deep into understanding the problems you are trying to solve and how you could solve those problems.*

|  |  |  |  |
| --- | --- | --- | --- |
| **Epic** Large body of work, contains stories | **Story** Smallest unit of work, al so known as a task | **Version** The release of software to the customer | **Sprint** Iteration where team does the work |

# 2.EPICS AND USER STORIES

*Epics are larger bodies of work that stories roll up into. An epic can span across multiple sprints and versions. Versions are different from epics, because they are a point in time where software is released to the customer. A version might contain multiple epics. Epics help teams create hierarchy and structure. Stories help teams keep track of specific details for the task at hand and can be broken down into sub-tasks.*



* *An* ***epic*** *is a large body of work that can be broken down into a number of smaller stories. For example, performance-related work in a release. An epic can span more than one project, if multiple projects are included in the board to which the epic belongs.*
* *Unlike sprints, epics often change in scope over time as a natural aspect of agile development. Epics are almost always delivered over a set of sprints. As a team learns more about an epic through development and customer feedback, user stories will be added and removed to optimize the team's release time.*
* ***Burndown******chplace*** *can al so be used to visualize epics, which keep teams motivated and the executive stakeholders informed. A good epic burndown chart shows the agile nature of development. It's clear how the team is progressing as well as where the product owner added and removed user stories. Having these data points clearly visible keeps everyone on the same page and facilitates open conversation about the evolution of the product and completion forecasts. Not to mention that transparency builds trust!*
* *A story or* ***user story*** *is the smallest unit of work in an agile framework. It is a software system requirement that is expressed in a few short sentences, ideally using non-technical language.*
* *The goal of a user story is to deliver a particular value back to the customer. Note that "customers" don't have to be external end users in the traditional sense, they can al so be internal customers or colleagues within your organization who depend on your team.*
* ***User stories*** *are a few sentences in simple language that outline the desired outcome. They don't go into detailed requirements.*
* ***Versions*** *are the actual releases of software out to customers. Remember, at the end of each sprint the team should be able to ship the software to customers. Versions are the curated changes the product owner actually ships.*
* ***Versions*** *are often developed over a set of sprints, much like epics. Savvy product owners may choose to deliver an epic over several versions. An epic does not have to be fully contained within a version. By delivering an epic over several versions, the product owner can learn how the market is responding to that epic and make calculated decisions about its future direction rather than doing one giant release.*
* *A* ***sprint*** *is a short period in which the development team implements and delivers a discrete and potentially shippable application increment, e.g. a working milestone version. If you haven't run sprints before, we recommend using a fixed two-week duration for each sprint. It's long enough to get something accomplished, but not so long that the team isn't getting regular feedback.*
* *In* ***scrum****, teams commit to complete a set of user stories during a fixed time period. Generally speaking, sprints are one, two, or four weeks long. It's up to the team to determine the length of a sprint. Once a sprint cadence is determined, the team perpetually operates on that cadence. Fixed length sprints reinforce estimation skills and enable the ability to predict the future* ***velocity*** *for the team once they have the data from several completed sprints.*

*Once a team commits to a set of user stories for the sprint, and the sprint is started, the scrum master is in charge of fending off changes to the user stories. This keeps the team focused and combats "s****cope creep****" (adding work to the sprint after the sprint stplace). Adding work mid-sprint compromises the team's ability to forecast and estimate accurately.*

*At the end of each sprint, the team is required to deliver a working piece of software. In scrum, that's called a* ***potentially shippable increment*** *(PSI). The product owner ultimately decides when the PSI gets released to customers, but the work should be complete enough to be suitable for release at the end of the sprint.*

*In agile development,* ***work in progress*** *(WIP) limits set the maximum amount of work that can exist in each status of a workflow. Limiting the amount of work in progress makes it easier to identify inefficiency in a team's workflow. Bottlenecks in a team's delivery pipeline are clearly visible before a situation becomes dire.*

# *USER STORIES: GOAL-1: Retain Archaeological data*

|  |  |  |
| --- | --- | --- |
| *Objective-1* | *Acquire Data* | |
| *Purpose* | *The purpose is to develop Collection Places Profiles to examine and visualise the data.* | |
| *Target Audience* | *Stakeholders* | |
| *Status* | *On-going* | |
| *Role:* | ***As a*** *Designer* | |
|  | ***I want to*** *<perform some task>* | ***so that I can*** *<achieve some goal>* |
| *Task Description* | *1. Collection Place Account Creation* | *Use it to do further analytics.* |
|  | *2. Select Profile Creation Option* | *Record Collection Place.* |
|  | *3. Record Collection Place* | *Build Collection Place Profile.* |
|  | *4. Fill Information* | *Proceed Registration.* |
|  | *5. Read and Accept Conditions* | *Move to next step.* |
|  | *6. Submit Data* | *Proceed Authentication.* |
|  | *7. Authenticate Submitted Details* | *Create Valid Profile.* |
|  | *8. Create Preliminary Database* | *Can store the acquired data of Places and visitors.* |
|  | *9. Structure Data Into Database* | *Get proper validated data.* |
|  | *10. Create Collection Place Data Spider* | *Get updated data about visitors and Places.* |
|  | *11. Formulate Database Structure* | *Start creating profiles.* |
|  | *12. Populate Places Database* | *Meet the preliminary objective.* |
|  | *13. Generate Backup* | *Retrieve data in case of loss of files.* |
|  | *14. Share Backup With Project Team* | *Expect team to perform assigned tasks.* |
|  | *15. Assign Database Privileges* | *Monitor the changes made to the database.* |
|  | *16. Launch Collection Place Page.* | *Fulfil project deliverables.* |

|  |  |  |
| --- | --- | --- |
| *Process-1* | *Acquire Collection Place’s Details* | |
| *Purpose* | *Collect collection places data to build profiles and examine data for better performance* | |
| *Target Audience* | *Places, Visitors* | |
| *Status* | *On-going* | |
| *Role:* | ***As a*** *Designer* | |
|  | ***I want to*** *<perform some task>* | ***so that I can*** *<achieve some goal>* |
| *Task Description* | *1. Set Up Mandatory Field Set* | *Maintain consistency of database.* |
|  | *2. Take Collection Place Inputs* | *Build their profiles* |
|  | *3. Manage Database Details Efficiently* | *For future use* |
|  | *4. Resister Collection Place Profiles* | *Collect new data.* |
|  | *5. Set Statistic Limits* | *Keep the data relative and realistic.* |
|  | *6. Modify Collection Place Details* | *Keep changes acceptable* |
|  | *7. Decide Appropriate Database sorting* | *Create a relative rating index.* |
|  | *8. Create log file* | *Keep track of changes made.* |

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| --- | --- | --- |
| *Process-2* | *Preserve Authenticated Data* | |
| *Purpose* | *Keep data preserved and precise.* | |
| *Target Audience* | *Stakeholders* | |
| *Status* | *On-going* | |
| *Role:* | ***As a*** *Designer* | |
|  | ***I want to*** *<perform some task>* | ***so that I can*** *<achieve some goal>* |
| *Task Description* | *1. Preserve Data Secure In Database* | *Data gets secured* |
|  | *2. Assign Database Privileges* | *Monitor the changes made to the database* |
|  | *3. Give Change Authority To Admin* | *Data gets protected* |
|  | *4. Commit Changes On Database* | *Render the changes to Place.* |
|  | *5. Produce Improvised Data* | *Re solve the issue.* |
|  | *6. Inform Place About Changes* | *Ensure consistency in the system.* |
|  | *7. Check If Data Has Been Already In Database* | *Rollback the incorrect data operations.* |
|  | *8. Delegate Unwanted Information* | *Have important and useful User Data only* |

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| --- | --- | --- |
| *Objective-2* | *Route Data* | |
| *Purpose* | *Preserve Collection Place data for future use , examine it to rate their place* | |
| *Target Audience* | *Internal Stakeholders* | |
| *Status* | *On-going* | |
| *Role:* | ***As a*** *Designer* | |
|  | ***I want to*** *<perform some task>* | ***so that I can*** *<achieve some goal>* |
| *Task Description* | *1. Design Efficient Database* | *Easily store data in database.* |
|  | *2. Preserve Validated data* | *Maintain into database.* |
|  | *3 .Authenticate Properly* | *Extract only relevant data.* |
|  | *4. Collect Collection Place Data* | *Examine It.* |
|  | *5. Separate According to place* | *Compare with existing place.* |
|  | *6.Categorize Place’s According to Types* | *Decide rate.* |
|  | *7.Categorizeplacewoks According to Popularity* | *Predicate estimated value.* |
|  | *8. Draw a map for the shortlisted places* | *Formalize the observations.* |
|  | *9.Disccus with place* | *Get list of any changes.* |
|  | *10.Apply Changes* | *Improve classification.* |
|  | *11.Check Place Rates* | *Classify place on that basis.* |
|  | *12.Re-Examine From Place* | *For further changes.* |
|  | *13.Finalize Data* | *Re-Examine it.* |
|  | *14.Forward to admin* | *Decide estimate value.* |
|  | *15.Ask Place For Feedback* | *For further improvement.* |
|  | *16.Determine Final Results* | *Proceed for further process.* |

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| --- | --- | --- |
| *Process-1* | *Excerpt Data* | |
| *Purpose* | *Access data to filter and rate the place* | |
| *Target Audience* | *Internal Stakeholders* | |
| *Status* | *On-going* | |
| *Role:* | ***As an*** *Designer* | |
|  | ***I want to*** *<perform some task>* | ***so that I can*** *<achieve some goal>* |
| *Task Description* | *1. Organise database attributes* | *Easily analyse the data.* |
|  | *2. Access Data of Places* | *View data about Places* |
|  | *3. Get data Access* | *Maintain records for future use* |
|  | *4. Examine the data* | *Rate Places place* |
|  | *5. Track Validation Process* | *Authenticate registered Data* |
|  | *6. Identify Database Parameters* | *Provide data according to the Parameter* |
|  | *7. Render Detail Changes* | *Change data in database* |
|  | *8. Remove Unnecessary Data* | *Get appropriate data* |

|  |  |  |
| --- | --- | --- |
| *Process-2* | *Filter Applicable Data* | |
| *Purpose* | *Decide ranking criterion* | |
| *Target Audience* | *Stakeholders* | |
| *Status* | *On-going* | |
| *Role:* | ***As an*** *Designer* | |
|  | ***I want to*** *<perform some task>* | ***so that I can*** *<achieve some goal>* |
| *Task Description* | *1. Get Correct Data* | *Can filter correctly* |
|  | *2. Receive Exact Information* | *Cite the website as source.* |
|  | *3. Ensure Appropriate Place Details* | *Can rate the place* |
|  | *4. Filter Data Based On Market Price* | *Decide Popularity.* |
|  | *5. Filter Data Based On Type* | *Can compare within places.* |
|  | *4. Find Different Place Similar Places* | *Compare Place quality.* |
|  | *7. Prioritize Places by rating* | *Get best deal for the Place.* |
|  | *8. Display Places.* | *Decide Rate.* |

# *USER STORIES: GOAL-2: Rank Archaeological Places*

|  |  |  |
| --- | --- | --- |
| *Objective-1* | *Excerpt Place Information* | |
| *Purpose* | *Make groups according to types of place to distinguish Place.* | |
| *Target Audience* | *External Stakeholders* | |
| *Status* | *On-going* | |
| *Role:* | ***As an*** *Designer* | |
|  | ***I want to*** *<perform some task>* | ***so that I can*** *<achieve some goal>* |
| *Task Description* | *1.Find and Augment Large Number of Place Information* | *Make information recruitment easier.* |
|  | *2. Maintain all place information in database* | *Easily find the information* |
|  | *3. Fire Extract Data Query* | *Fetch Place details* |
|  | *4. Enlist Place Data* | *Examine it properly* |
|  | *5. Inspect Each Place Information* | *Use it categorize* |
|  | *6. Make Different Groups of Similar Place* | *Remove Similar Place* |
|  | *7. Search Additional Details* | *Add details* |
|  | *8. Rectify Place Data* | *Demonstrate Place* |
|  | *9. Ensure Data Correctness* | *Check whether place data is correct or not* |
|  | *10.Classify Place According To Type* | *Preserve into database* |
|  | *11.Extract Previous Place and Place Data* | *Decide best place for collector* |
|  | *12.Forward Authenticated Place Data* | *Decide Rate Based On Place Quality* |
|  | *13.Preserve Differentiated Place* | *For future use* |
|  | *14.Re-Validate Database Data* | *Eliminate irrelevant* |
|  | *15. Examine Differentiated Place Data* | *Easily Search* |
|  | *16.Finalize Place Category* | *Forwarded to Places* |

|  |  |  |
| --- | --- | --- |
| *Process-1* | *Excerpt Details* | |
| *Purpose* | *Make easier to search Place.* | |
| *Target Audience* | *External Stakeholders* | |
| *Status* | *On-going* | |
| *Role:* | ***As an*** *Designer* | |
|  | ***I want to*** *<perform some task>* | ***so that I can*** *<achieve some goal>* |
| *Task Description* | *1. Execute Query* | *Fetch data* |
|  | *2. Fetch data* | *Proceed to authenticate* |
|  | *3. Authenticate data* | *Remove redundant data* |
|  | *4. Survey Place* | *Decide best Place.* |
|  | *5. Differentiate Place Place wise* | *Make Place Groups* |
|  | *6. Re-Examine Place* | *Remove irrelevant data* |
|  | *7. Accommodate all the details* | *Forward to finalize data* |
|  | *8. Finalize data* | *Examine it* |

|  |  |  |
| --- | --- | --- |
| *Process-2* | *Examine Place Data* | |
| *Purpose* | *Obtain a better categorization.* | |
| *Target Audience* | *Internal Stakeholders* | |
| *Status* | *Completed* | |
| *Role:* | ***As an*** *Designer* | |
|  | ***I want to*** *<perform some task>* | ***so that I can*** *<achieve some goal>* |
| *Task Description* | *1. Excerpt Data Related Place* | *Can Examine it* |
|  | *2. Examine Data* | *Can categorize place* |
|  | *3.Categorize Place* | *Make Groups* |
|  | *4.Remove similar Place* | *Get properly categorized Place* |
|  | *5.Extract previous Place Data* | *Compare with existing* |
|  | *6. Compare Place* | *Differentiate them* |
|  | *7. Authenticate Differentiated Data* | *Forward to determine results* |
|  | *8.Determine Results* | *Predicate value based on groups* |

|  |  |  |
| --- | --- | --- |
| *Objective-2* | *Check Algorithm’s Correctness* | |
| *Purpose* | *Make classes of Place as per categories.* | |
| *Target Audience* | *Stakeholders* | |
| *Status* | *Completed* | |
| *Role:* | ***As an*** *Designer* | |
|  | ***I want to*** *<perform some task>* | ***I want to*** *<perform some task>* |
| *Task Description* | *1.Acquire Place attributes and data* | *Identify Place data* |
|  | *2.Examine data distribution per attribute* | *View relationships between the data* |
|  | *3.Fix inconsistencies in selected attributes* | *Ensure correct data is used in future processes.* |
|  | *4.Prototype groups according to attributes* | *Select viable grouping attributes* |
|  | *5.Establishplacegroups* | *Enable grouped data usage in further processes* |
|  | *6.Accessplacegroups* | *View grouped data* |
|  | *7.Form a basis/gist for the group* | *The usage of the group is enabled* |
|  | *8.Choose encoding method for the basis* | *Encode data appropriately* |
|  | *9.Establish results of encoding analysis* | *Forward it to developers* |
|  | *10.Integrate results* | *They can be used in future.* |
|  | *11. Groups Place* | *Easily distributed.* |
|  | *12. Study Place status afully* | *Classify the place status* |
|  | *13.Create place status chart* | *Use it for further process.* |
|  | *14.Demonstrateplacegroups* | *Usage of groups is ensured* |
|  | *15.Deliverplacegroups* | *Forward groups for further analysis* |
|  | *16. Communicate the Place* | *Convey them the place status* |

|  |  |  |
| --- | --- | --- |
| *Process-1* | *Group place’s Type* | |
| *Purpose* | *Choose attributes that can decide classes and groups.* | |
| *Target Audience* | *Stakeholders* | |
| *Status* | *On-going* | |
| *Role:* | ***As a*** *Designer* | |
|  | ***I want to*** *<perform some task>* | ***I want to*** *<perform some task>* |
| *Task Description* | *1.Acquire Place Data* | *Identify place Information* |
|  | *2.Identify Place Attributes* | *View place Attributes from place information database.* |
|  | *3.Examine attribute-wise data* | *Excerpt attribute-wiseplace groups.* |
|  | *4.Excerpt attributes for grouping* | *Excerpt attribute-wiseplace groups.* |
|  | *5.Detect inconsistencies in selected attributes* | *Eliminate inconsistencies.* |
|  | *6.Normalise and repair inconsistencies* | *Ensure proper data* |
|  | *7.Authenticate correctness of normalisation* | *Validate normalisation* |
|  | *8.Createplace groups according to types* | *Use the grouped data for better statistical model* |

|  |  |  |
| --- | --- | --- |
| *Process-2* | *Authenticate Place Groups* | |
| *Purpose* | *Authenticate formed place Groups .* | |
| *Target Audience* | *Stakeholders* | |
| *Status* | *On-going* | |
| *Role:* | ***As an*** *Designer* | |
|  | ***I want to*** *<perform some task>* | ***I want to*** *<perform some task>* |
| *Task Description* | *1.Accessplacegroups* | *Use place groups for analysis* |
|  | *2.Examineplacegroups* | *Gain insights into the data* |
|  | *3.Conceptualise basis of the groups* | *Authenticate the insights gained* |
|  | *4.Derive basis for grouping* | *Validate the basis derived* |
|  | *5.Decide encoding technique for derived basis* | *Represent the basis and insights in the database* |
|  | *6.Validate encoding technique* | *Ensure proper representation via encoding* |
|  | *7.Examine encoded data* | *Authenticate usability of the encoded data* |
|  | *8.Modify encoding technique* | *Ensure best encoding technique is used* |

# *USER STORIES: GOAL-3: Categorize places*

|  |  |  |
| --- | --- | --- |
| *Objective-1* | *Collaborate Place’s History* | |
| *Purpose* | *Collaborate details of places and determine Places popularity.* | |
| *Target Audience* | *Stakeholders* | |
| *Status* | *On-going* | |
| *Role:* | ***As an*** *Developer* | |
| *Task Description* | ***I want to*** *<perform some task>* | ***so that I can*** *<achieve some goal>* |
|  | *1.Collect Place History* | *Examine it.* |
|  | *2.Separate Place Details GroupWise* | *Classify it.* |
|  | *3.Extract Previous Presale details* | *Compare with existing.* |
|  | *4.Arrange Places* | *Improve Place.* |
|  | *5.Extract Place Details From Place History* | *Determine his popularity.* |
|  | *6.Classify Place Based On Popularity* | *Assist Place to improve their ratings.* |
|  | *7.Check Place Rating* | *Classify their place.* |
|  | *8.Authenticate Database Data* | *Prevent fraud business* |
|  | *9.Obtain Previous Bidding Rates* | *Determine New bidding rates.* |
|  | *10.Compare Loss* | *Eliminate that Place* |
|  | *11.Compare Profit* | *Make more profit.* |
|  | *12.Acquire Previous Un sold Items Date* | *Forward for Estimation.* |
|  | *13. Check Un sold Items Ratings* | *Re-Classify place.* |
|  | *14.Re-Examine Un sold Items* | *Remove low rate items.* |
|  | *15.Forward High Rate Place* | *Negotiate new contracts.* |
|  | *16.Estimate number of un sold items* | *Proceed for sale* |

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| *Process-1* | *Acquire Place’s Location* | |
| *Purpose* | *Evaluation of ratings and popularity of places* | |
| *Target Audience* | *Tourists* | |
| *Status* | *On-going* | |
| *Role:* | ***As an*** *Designer* | |
|  | ***I want to*** *<perform some task>* | ***so that I can*** *<achieve some goal>* |
| *Task Description* | *1. Visit Websites.* | *Store data in database.* |
|  | *2. Visit exhibitions for procuring details* | *Classify data in proper manner accordingly.* |
|  | *3. Find Previous Places Locations* | *Determine prime location.* |
|  | *4. Find Previous Place Sea sons* | *Determine sea son of sale.* |
|  | *5. Acquire Place Location Details* | *Examine It.* |
|  | *6. Acquire Place Sea son Details* | *Examine It.* |
|  | *7. Inspect Extracted Details* | *Proceed to authenticate.* |
|  | *8. Authenticate Data* | *Finalize data.* |

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| *Process-2* | *Determine Place’s popularity* | |
| *Purpose* | *Estimate popularity based on annals of Places* | |
| *Target Audience* | *External Stakeholders* | |
| *Status* | *On-going* | |
| *Role:* | ***As an*** *Designer* | |
|  | ***I want to*** *<perform some task>* | ***so that I can*** *<achieve some goal>* |
| *Task Description* | *1.Design Algorithm For Prime Locations* | *Calculate Prime Locations* |
|  | *2.Design Algorithm For Popular Sea sons* | *Calculate Popular Sea sons* |
|  | *3.Calculate Final Prime Locations* | *Obtain Places hosting places in prime spots* |
|  | *4.Calculate Final Popular Sea sons* | *Obtain Places hosting places in popular sea sons* |
|  | *5.Choose relevant Place’s Statistics* | *Discard all unnecessary statistics* |
|  | *6.Train model to predict Place Popularity* | *Estimate accurate results.* |
|  | *7.Inspect Place Popularity* | *Provide sufficient data* |
|  | *8.Reduce squared-error factor* | *Determine Final Results* |

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| *Objective-2* | *Procure Place Statistics* | |
| *Purpose* | *Appraise performance of an Place in an place.* | |
| *Target Audience* | *External Stakeholders* | |
| *Status* | *On-going* | |
| *Role:* | ***As an*** *Developer* | |
| *Task Description* | ***I want to*** *<perform some task>* | ***so that I can*** *<achieve some goal>* |
|  | *1.Extract Previous Place Performance Details* | *Proceed for new.* |
|  | *2.Extract Current Place Performance Details* | *Compare both old and new.* |
|  | *3.Classify Place Performance Wise* | *Make Groups of Place.* |
|  | *4.Extract Total Preplace of Place* | *Decide their popularity.* |
|  | *5.Extract Place History of Place* | *Decide their performance.* |
|  | *6.Extract Place BestplaceSale Details* | *Decide their rates.* |
|  | *7 .Extract High Performance Place Details* | *Mark high rates to them.* |
|  | *8. Extract Low Performance Place Details* | *Mark low rates to them.* |
|  | *9.Make List Of Low Rated Place* | *Assist place to improve their performance.* |
|  | *10.Determine Gains* | *Categorize Places based on performances* |
|  | *11.Determine Losses* | *Categorize Places.* |
|  | *12.Maintain Accurate Rate Information* | *Avoid risk of inaccurate prediction.* |
|  | *13.Examine Rate Information* | *Eliminate irrelevant rated details.* |
|  | *14. Compare gain from every Place’s place.* | *Negotiate new contracts.* |
|  | *15.Re-Examine Details* | *Make Final Data.* |
|  | *16.Forward Finalized Data* | *Marks final rates.* |

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| *Process-1* | *Excerpt Previous Bidding Rate* | |
| *Purpose* | *Estimate opening, reserved and presale prices based on annals of Places* | |
| *Target Audience* | *Places* | |
| *Status* | *On-going* | |
| *Role:* | ***As an*** *Designer* | |
|  | ***I want to*** *<perform some task>* | ***so that I can*** *<achieve some goal>* |
| *Task Description* | 1. *Extract Previous Catalogues* | *Access all bidding rates* |
|  | 1. *Extract Reserved Price* | *Proceed bidding rates* |
|  | 1. *Extract Presale Price* | *Compare with existing preplace* |
|  | 1. *Collect Place Rates* | *Prevent model from under fitting* |
|  | 1. *Predict Opening Bid* | *Estimate accurate results.* |
|  | 1. *Predict Reserved price.* | *Generate results.* |
|  | 1. *Decide Presale Price* | *Generate results* |
|  | 1. *Forward Validated Details* | *Determine bidding rates* |

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| *Process-2* | *Obtain all the place count* | |
| *Purpose* | *Estimate Places count* | |
| *Target Audience* | *Places* | |
| *Status* | *On-going* | |
| *Role:* | ***As an*** *Developer* | |
|  | ***I want to*** *<perform some task>* | ***so that I can*** *<achieve some goal>* |
| *Task Description* | *1.Design Gain Algorithm* | *Proceed Detail Access* |
|  | *2.Access Biding Rates* | *Forward as input to algorithm* |
|  | *3.Authenticate Bidding Rates* | *Eliminate irrelevant details* |
|  | *4.Visit Final Data Re sources* | *Extract final data* |
|  | *5.Excerpt Places* | *Forward as second input to algorithm* |
|  | *6.Calculate Place Gain* | *Finalize calculated gain* |
|  | *7.Forward Calculated Data* | *Proceed determining rates* |
|  | *8.Forward Determined Rates* | *Rate place future sculptures* |

# *USER STORIES: GOAL-4: Process Visitor’s Queries*

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| *Objective-1* | *Excerpt Place Data* | |
| *Purpose* | *Collect place data to decide exact rate of art* | |
| *Target Audience* | *Stakeholders* | |
| *Status* | *On-going* | |
| *Role:* | ***As an*** *Designer* | |
|  | ***I want to*** *<perform some task>* | ***so that I can*** *<achieve some goal>* |
| *Task Description* | *1.Find and add information of Place’s in database* | *Make prediction of place rate easier.* |
|  | *2.Maintain all Place’s in database* | *Easily find the Place* |
|  | *3.Excerpt Place information* | *Use it for the predicting value* |
|  | *4.diagnose another Place’s Place* | *To predicate place rate for visitors.* |
|  | *5.Examine Place’s form* | *Make decision on contract of Place’s.* |
|  | *6.sSurvey market Place* | *Negotiate new contracts.* |
|  | *7.Compare attributes by type* | *Examine importance of type.* |
|  | *8.Inspect attributes by popularity* | *Decide importance of popularity.* |
|  | *9.Establish Place background* | *Expect transparency.* |
|  | *10. Survey Place past experience* | *Compare Place quality.* |
|  | *11.Extract Place rating* | *Compare with existing Place.* |
|  | *12.Check similar Place* | *Decide best solution.* |
|  | *13.Investigate Place value* | *Decide Rate.* |
|  | *14.Authenticate Data* | *Proceed for deciding rate.* |
|  | *15.Remove Redundant Place* | *Only forward Appropriate data.* |
|  | *16.Conserve Place data* | *Use for future use.* |

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| *Process-1* | *Preserve Place Details* | |
| *Purpose* | *Maintain details to predicate rate* | |
| *Target Audience* | *Stakeholders* | |
| *Status* | *On-going* | |
| *Role:* | ***As a*** *Designer* | |
|  | ***I want to*** *<perform some task>* | ***so that I can*** *<achieve some goal>* |
| *Task Description* | *1. View all place data* | *Start the predicting rate of place* |
|  | *2. Make a list of selected place* | *Decide to use it now or afterwards* |
|  | *3. Keep details in database* | *No need to do the same process of Excerpting details* |
|  | *4. Know related data* | *Share it with collector* |
|  | *5. Provide the details* | *Have them for future use* |
|  | *6. Modify information of place* | *Update place data* |
|  | *7. Fetch current place details* | *Improve on place* |
|  | *8. Preserve in database* | *Maintain place data properly* |

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| *Process-2* | *Scrutinize Place* | |
| *Purpose* | *Examine place to predicate Place rate* | |
| *Target Audience* | *Place’s* | |
| *Status* | *On-going* | |
| *Role:* | ***As a*** *Designer* | |
|  | ***I want to*** *<perform some task>* | ***so that I can*** *<achieve some goal>* |
| *Task Description* | *1.Ftech data from database* | *Easily Examine the data.* |
|  | *2 .Design patterns for attributes* | *To study data.* |
|  | *3.Dispose irrelevant attributes* | *Eliminate unnecessary information.* |
|  | *4.Group and compare attributes* | *Examine data distribution.* |
|  | *5.Standardize Place features* | *Ensure equal importance to each feature* |
|  | *6.Use different feature selection strategies* | *Divide it in different sections* |
|  | *7.Con solidate final data with features* | *Use it to predicate rate* |
|  | *8.Authenticate final data* | *Forward to decide rate* |

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| *Objective-2* | *Decide Rate* | |
| *Purpose* | *To predicate rate of place* | |
| *Target Audience* | *Visitors* | |
| *Status* | *On-going* | |
| *Role:* | ***As an*** *Developer* | |
|  | ***I want to*** *<perform some task>* | ***so that I can*** *<achieve some goal>* |
| *Task Description* | *1. Access all Place’s profiles* | *Use all Place data* |
|  | *2. Acquire all Place data* | *Remove anomalies from the data* |
|  | *3. Validate the data* | *Erase all the errors from data* |
|  | *4. Correct the errors in the data* | *Generate value with ease* |
|  | *5. View all attributes of the Place’s* | *Give points to the attributes* |
|  | *6. Survey market values* | *Negotiate new values* |
|  | *7. Convert attributes into points* | *Provide data to the system* |
|  | *8. Create a formula to generate predicted value* | *Generate an estimate value* |
|  | *9. Generate predicted value of the player* | *Display it to the collector* |
|  | *10.Communicate the prediction to the user* | *Meet the objective* |
|  | *11.Take Place reviews* | *Change predicted rate* |
|  | *12.Change predicted value* | *Make it more desire* |
|  | *13. Compare previous predicted rates* | *Get more accurate rates* |
|  | *14.Validate predicated rates* | *Decide final rate* |
|  | *15. Generate Final rate* | *Display to collector* |
|  | *16.Display generated value* | *Provide estimated value.* |

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| *Process-1* | *Execute Predictions* | |
| *Purpose* | *Enable the output of system.* | |
| *Target Audience* | *Visitors* | |
| *Status* | *On-going* | |
| *Role:* | ***As a*** *Developer* | |
|  | ***I want to*** *<perform some task>* | ***so that I can*** *<achieve some goal>* |
| *Task Description* | *1.Access formatted user queries* | *Process and get related Place data* |
|  | *2.Excerpt Place data from query* | *Use it for prediction* |
|  | *3.Validate Excerpted Place data* | *Ensure it fits model requirements* |
|  | *4.Detect missing values* | *Display input error.* |
|  | *5.Normalise input data* | *Search database* |
|  | *6.Feed data to the model* | *Begin prediction* |
|  | *7.Excerpt output from the model* | *Process query* |
|  | *8.Authenticate proper output* | *Validate system* |

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| *Process-2* | *Present Place’s Rate* | |
| *Purpose* | *Display predicted rate of place.* | |
| *Target Audience* | *Visitors* | |
| *Status* | *On-going* | |
| *Role:* | ***As a*** *Designer* | |
|  | ***I want to*** *<perform some task>* | ***so that I can*** *<achieve some goal>* |
| *Task Description* | *1. make Bar graph* | *Show base value of place* |
|  | *2. make deviation graph* | *Show predicted value* |
|  | *3. make growth chart* | *Show future rate of place* |
|  | *4. make pie chart* | *Show collector rate of place* |
|  | *5. show his downfalls* | *Show low rate of place* |
|  | *6. show ranking* | *Show best rate of place* |
|  | *7. display exact rate* | *Display exact rate of place* |
|  | *8. Show all rates of place* | *View all rates* |

# *USER STORIES: GOAL-5: Generate Tourists alert*

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| *Objective-1* | *Generate place Statistics* | |
| *Purpose* | *Indicate purpose of the objective to rate the Place* | |
| *Target Audience* | *Stakeholders* | |
| *Status* | *On-going* | |
| *Role:* | ***As an*** *Designer* | |
|  | ***I want to*** *<perform some task>* | ***so that I can*** *<achieve some goal>* |
| *Task Description* | *1.Generate Performance Score* | *Get Place’s Quality* |
|  | *2.Find Goals* | *judge his forward performance* |
|  | *3.Check skills of Place* | *See qualities of Place* |
|  | *4.Find popularity* | *See how popular he is* |
|  | *5.Use Past Achievements* | *Show Highlights* |
|  | *6.Check previous rating* | *See Present performance* |
|  | *7.Check Net Worth* | *Adjust Base price* |
|  | *8.Collect other Misc. data* | *Show intricate data* |
|  | *9.Extract all the Place files* | *Get all the appropriate information.* |
|  | *10.Study Previously generated reports* | *Use the data in final report* |
|  | *11.Verify data in the database* | *Authenticate the data.* |
|  | *12.Communicate with Place* | *Discuss Place Sale.* |
|  | *13. Add various elements to the report* | *Generate a thorough detail.* |
|  | *14. Add graphs to Place’s profiles* | *Display them within the profiles* |
|  | *15. Study Place report* | *Recommend Admin.* |
|  | *16. Categorize health reports* | *Measure the serious issues.* |

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| *Process-1* | *Find places Statistics* | |
| *Purpose* | *Indicate purpose of the objective to rate the Place* | |
| *Target Audience* | *Places* | |
| *Status* | *On-going* | |
| *Role:* | ***As an*** *Developer* | |
|  | ***I want to*** *<perform some task>* | ***so that I can*** *<achieve some goal>* |
| *Task Description* | *1.Collect data* | *Get general data for each Place* |
|  | *2.Find Performance Score* | *Get Place’s Quality* |
|  | *3.Check Skill* | *See qualities of Place* |
|  | *4.Give non-basic details* | *Show more details about him* |
|  | *5.Show best details of Place* | *Attract Managers* |
|  | *6.Use social network* | *Show Place social life* |
|  | *7.Download lots of picture and video of Place* | *Submit it to managers* |
|  | *8.Find his fan following* | *See how good he is* |

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| *Process-2* | *Communicate Appropriate Statistics* | |
| *Purpose* | *Indicate purpose of the objective to rate the Place* | |
| *Target Audience* | *Visitors* | |
| *Status* | *On-going* | |
| *Role:* | ***As a*** *Developer* | |
|  | ***I want to*** *<perform some task>* | ***so that I can*** *<achieve some goal>* |
| *Task Description* | *1. Generate Place Report. Use it for building Place profiles* | *1. Generate Sale Report. Use it for building Place profiles* |
|  | *2. Find Place Statistics sort and categorize data* | *2. Find Place Statistics sort and categorize data* |
|  | *3. Communicate Relevant statistics* | *3. Communicate Relevant statistics* |
|  | *4. Remove unnecessary statistics* | *4. Remove unnecessary statistics* |
|  | *5. Make different categories of Place* | *5. Make different categories of players* |
|  | *6. Display relevant Place statistics and display in brief* | *6. Display relevant Player statistics and display in brief* |
|  | *7. Display various statistical graphs and Understand more easily* | *7. Display various statistical graphs and Understand more easily* |
|  | *8. Display Place profiles View all statistics* | *9. Display Place profiles View all statistics* |

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| *Objective-2* | *Display Place Statistics* | |
| *Purpose* | *Indicate purpose of objective to rate Places* | |
| *Target Audience* | *Visitors* | |
| *Status* | *On-going* | |
| *Role:* | ***As a*** *Designer* | |
|  | ***I want to*** *<perform some task>* | ***so that I can*** *<achieve some goal>* |
| *Task Description* | *1. Obtain Place Review* | *Identify Place satisfaction* |
|  | *2. Retrieve Place Rating* | *sort s list as per ratings* |
|  | *3. Extract useful review* | *Extract the Place details from database* |
|  | *4. Arrange Meeting Schedules* | *Report sale to place* |
|  | *5. Permit Feedback Reminder* | *Ensure the message gets delivered* |
|  | *6. Validate Place Report* | *Display report to place* |
|  | *7. Evoke graph statistics* | *Gather information and make a complete graph* |
|  | *8.Make Bar graph* | *Show his basic statistics* |
|  | *9.Make deviation graph* | *Show his variation* |
|  | *10.Make growth chart* | *Show his future Goal* |
|  | *11.Show his downfalls* | *Tell his bad decision* |
|  | *12.Show ranking* | *Tell how good he is* |
|  | *13.Show his milestones* | *Tell manager what he has done* |
|  | *14.Show his achievements* | *Make him more attractive* |
|  | *15.Show his Misc. data* | *Show his nonprofessional things* |
|  | *16.Know User Feedback* | *Analyse Feedback* |

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| *Process-1* | *Display Appropriate Statistics* | |
| *Purpose* | *Indicate purpose of the objective to rate the Place* | |
| *Target Audience* | *Places* | |
| *Status* | *On-going* | |
| *Role:* | ***As an*** *Designer* | |
|  | ***I want to*** *<perform some task>* | ***so that I can*** *<achieve some goal>* |
| *Task Description* | *1. Generate Place Report* | *Use it for building Place’s profiles* |
|  | *2. Find Place’s Statistics* | *sort and categorize data* |
|  | *3. Communicate Relevant statistics* | *Remove unnecessary statistics* |
|  | *4. Remove data abnormalities* | *Display only correct data* |
|  | *5. Make different categories of data* | *Search Place’s statistics easily* |
|  | *6. Consider only relevant Place’s statistics* | *Remove all unnecessary statistics* |
|  | *7. Add statistics to Place’s profile* | *Display Place’s Profile* |
|  | *8. Update Place’s statistics* | *Include all the latest statistics* |

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| *Process-2* | *Generate Place Statistical information* | |
| *Purpose* | *Indicate purpose of the objective to rate the Place* | |
| *Target Audience* | *Places* | |
| *Status* | *On-going* | |
| *Role:* | ***As an*** *Designer* | |
|  | ***I want to*** *<perform some task>* | ***so that I can*** *<achieve some goal>* |
| *Task Description* | *1. Generate Place Report* | *Use it for building Place’s profiles* |
|  | *2. Find Place’s Statistics* | *sort and categorize data* |
|  | *3. Communicate Relevant statistics* | *Remove unnecessary statistics* |
|  | *4. sort relevant Place’s data* | *Categorize Accordingly* |
|  | *5. Choose relevant Place’s Statistics* | *Remove all unnecessary statistics* |
|  | *6. Arrange data suitable for creating graphs* | *Create Place graphs easily* |
|  | *7. Generate Place graphs* | *Add them to Place’s profiles* |
|  | *8. Display Place’s profiles* | *View all statistics* |

# *USER STORIES: GOAL-6: Create Visitor’s analysis report*

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| *Objective-1* | *Establish Place’s Synergy* | |
| *Purpose* | *Showcase Visitors that Places imitates life in form of art.* | |
| *Target Audience* | *Visitors* | |
| *Status* | *On-going* | |
| *Role:* | ***As a*** *Developer* | |
|  | ***I want to*** *<perform some task>* | ***so that I can*** *<achieve some goal>* |
|  | *1.Extract Collector Data* | *Proceed for inspection.* |
|  | *2.Examine Visitors Data* | *Eliminate irrelevant details.* |
|  | *3.Make List of Collector Place* | *Show their list on website.* |
|  | *4. Show Attractive Place* | *Motivate visitors to buy more art.* |
|  | *5.Show Best Place* | *Encourage to buy.* |
|  | *6.Gather Place with Different Perspective* | *Connect collector with place.* |
|  | *7.Show Feedback Form To place Collector* | *Take feedback.* |
|  | *8.Examine Feedback* | *For further improvements.* |
|  | *9.Make Changes Classification* | *Change classification according to collector.* |
|  | *10.Make List of Underprivileged Place* | *Encourage them to participate.* |
|  | *11.Showcase their interest* | *Register them for places.* |
|  | *12.Make classification of their place* | *Show place in place* |
|  | *13.Provide Funds To Underprivileged Place* | *Contributes their talent.* |
|  | *14.Arrange Meetings* | *Build interaction between old place* |
|  | *15.Show Their Talent To Old Place* | *Old place can Encourage them* |
|  | *16.Showcase Place Talent to Collector* | *Collector can buy their sculptures.* |

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| *Process-1* | *Provide Collection Place’s Catalyst* | |
| *Purpose* | *Provide a platform where Places can contribute with an ease.* | |
| *Target Audience* | *Internal Stakeholders* | |
| *Status* | *On-going* | |
| *Role:* | ***As an*** *Developer* | |
|  | ***I want to*** *<perform some task>* | ***so that I can*** *<achieve some goal>* |
| *Task Description* | *1.Build a user-friendly interface* | *Proceed website build* |
|  | *2. Design place Categorized Website.* | *Visitors scroll over sculptures.* |
|  | *3.Design Visitors Choice Place Model* | *Save visitors search time.* |
|  | *4.Provide Interface To Collection Place* | *Constantly receive encouragement by place* |
|  | *5. Feed Collection Place Data* | *Use for future* |
|  | *6.Examine Data* | *Eliminate irrelevant details* |
|  | *7.Ask Collection Place To Contribute* | *Collect their contributions.* |
|  | *8.Re-Examine Collected Attributes* | *Get final data.* |

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| *Process-2* | *Show Vibrant visitors’s Perspective.* | |
| *Purpose* | *Propagate fresh and upcoming talent in place field.* | |
| *Target Audience* | *Internal Stakeholders* | |
| *Status* | *On-going* | |
| *Role:* | ***As an*** *Designer* | |
|  | ***I want to*** *<perform some task>* | ***so that I can*** *<achieve some goal>* |
| *Task Description* | *1.Register New Place* | *Get Place Details* |
|  | *2.Authenticate New Place Data* | *Store into database.* |
|  | *3.Check Place Ratings* | *Classify their Places.* |
|  | *4.Discuss Previous Place Report* | *Get Place Predicted Rate.* |
|  | *5.Safeguard Visitors place Interest* | *source art-works directly from Places.* |
|  | *6. Propagate Contemporary Art.* | *Establish Collection Place relationship.* |
|  | *7.Arrange Meeting* | *Build their interest.* |
|  | *8.Promote Upcoming Talent* | *Encourage new-comers.* |

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| *Objective-2* | *Increase Tourism’s Investment* | |
| *Purpose* | *Increase place and allure more people towards place* | |
| *Target Audience* | *Places* | |
| *Status* | *On-going* | |
| *Role:* | ***As an*** *Developer* | |
|  | ***I want to*** *<perform some task>* | ***so that I can*** *<achieve some goal>* |
|  | *1.Extract Place Data* | *Examine their interested field.* |
|  | *2.Extract Collector Data* | *Examine their interested field.* |
|  | *3.Classify Place And Visitors* | *Make groups according to interest.* |
|  | *4.Arrange Meetings* | *Similar interest Collection place can discuss.* |
|  | *5.Discuss Their New Ideas* | *Coordinate them with each other.* |
|  | *6.Attract More Collector Toward Place* | *Increase place scale.* |
|  | *7.ExtractplaceData* | *Choose best sculptures.* |
|  | *8.Show Best Sculptures On Website* | *Attract more people toward place.* |
|  | *9.Access Bidding Rates* | *Make list of best place rates.* |
|  | *10.Show Rates On Website* | *Encourage people to invest.* |
|  | *11.Keep Low Participation Fees* | *More people can participate.* |
|  | *12.Encourage Place* | *Assist them to make people perspective art.* |
|  | *13.Make People Perspective Place* | *Showcase them on website* |
|  | *14.Invest More People* | *Get More Profit* |
|  | *15.Generate Sale Report* | *For further use.* |
|  | *16.Examine Report* | *Make Final Reports.* |

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| *Process-1* | *Change visitor’s Mind-Set* | |
| *Purpose* | *Bring back culture and new approach* | |
| *Target Audience* | *Visitors* | |
| *Status* | *On-going* | |
| *Role:* | ***As an*** *Developer* | |
|  | ***I want to*** *<perform some task>* | ***so that I can*** *<achieve some goal>* |
| *Task Description* | *1.Collect Peoples Perspective Place* | *Increase their interest.* |
|  | *2.Make Groups Of Place* | *Improve place.* |
|  | *3. Make Affordable Place Available.* | *Assist Place to showcase their works* |
|  | *4. Make Elite Places Available* | *Benefit Renowned Places.* |
|  | *5. Reduce participation fees* | *More places can participate.* |
|  | *6.Show Best Place* | *Sale Best Art.* |
|  | *7.Receive Peoples Feedback* | *Assist Place to improve their place.* |
|  | *8.Forward Best Sculpture* | *Sale in place to people* |

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| *Process-2* | *Present Antiquities place Forms.* | |
| *Purpose* | *Transcending various genre of art* | |
| *Target Audience* | *Visitors* | |
| *Status* | *On-going* | |
| *Role:* | ***As an*** *Designer* | |
|  | ***I want to*** *<perform some task>* | ***so that I can*** *<achieve some goal>* |
| *Task Description* | *1.Arrange Places* | *Show Place.* |
|  | *2.Extract Previous Place Details* | *Compare with existing places.* |
|  | *3.Send Place details to Collection Place* | *Encourage them to contribute.* |
|  | *3.Make Changes* | *Make more interactive.* |
|  | *4.Promote Emerging Indian Places Art* | *Promote place collector awareness.* |
|  | *5. Show Prestigious Place names* | *Support Places.* |
|  | *6.Encourage Place* | *Show their best in place.* |
|  | *8. Host Platform for Underprivileged Places Place.* | *Assist them to take their place to next level.* |

***Iteration Backlog***

***User Stories Goal 1-Retain Archaeological Data.***

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| ***Objective-1*** | ***Register Survival Centre*** | ***SP*** | ***IC*** | ***IP*** |
|  | *13. As a Survival place Manager I want to Register developer so that I can Anticipate team to perform assigned tasks.* | *13* | *I1=20* | *1* |
|  | *3. As a survival place manager I want to register place survival place so that I can build A place profile.* | *5* |
|  | *9.As a Survival place Manager I want to Upload place Documents so that I can Authenticate From Centre* | *2* |
|  | *1.As a Survival place Manager I want to find online survival A so that I can provide Services to place a centres.* | *3* | *I2=20* | *2* |
|  | *2.As a Survival place Manager I want to Select Registration Option so that I can register Survival A Centre* | *8* |
|  | *4.As a Survival place Manager I want to Read terms and conditions so that I can Decide further Actions.* | *3* |
|  | *5.As a Survival place Manager I want to Accept Terms and condition so that I can Move to next step.* | *1* |
|  | *7.As a Survival place Manager I want to Submit place data*  *Confirm the registration process* | *5* |
|  | *12.As a Survival place Manager I want to Choose Developer type so that I can Make entry of developer* | *8* | *I3=19* | *3* |
|  | *14.As a Survival place Manager I want to Upload Developer Qualification Details so that I can Authenticate Developer* | *8* |
|  | *6.As a Survival place Manager I want to Fill detailed information so that I can Proceed the registration process.* | *3* |
|  | *15.As a Survival place Manager I want to Assign User Controls so that I can Avail assigned services to developer* | *13* | *I4=18* | *4* |
|  | *16.As a Survival place Manager I want to Verify registered email Id so that I can Receive validated acknowledgement* | *5* |
|  | *10.As a Survival place Manager I want to Arrange Managers Meeting so that I can Finalize the Field of place Interest* | *5* | *I5=18* | *5* |
|  | *11As a Survival place Manager I want to Validate place Profile so that I can Access place services* | *5* |
|  | *16.As a Survival place Manager I want to Maintain Service Log so that I can Track Survival A place activities* | *8* |

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| ***Process-1*** | ***Accumulate place Information*** | ***SP*** | ***IC*** | ***IP*** |
|  | *8.As a system Administrator I want to take a tour so that I can verify facility details* | *18* | *I1=20* | *1* |
|  | *9.As a system Administrator I want to know service time*  *so that I can provide it to user* | *2* |
|  | *3..As a system Administrator I want to fetch government database so that I can cross check entered place data* | *13* | *I2=20* | *2* |
|  | *1.As a system Administrator I want to Access Survival Centres Profiles so that I can Avail place basic information.* | *5* |
|  | *11.As a system Administrator I want to feed service details*  *so that I can avail on-going processes* | *2* |
|  | *4.As a system Administrator I want to run offline survey*  *so that I can compare with online data* | *8* | *I3=20* | *3* |
|  | *5.As a system Administrator I want to access place location so that I can locate survival a centre* | *5* |
|  | *6.As a system Administrator I want to plot marker so that I can find exact location of the centre* | *5* |
|  | *14.As a system Administrator I want to study survival place details so that I can categorize survival place according to field of interest* | *2* |
|  | *7.As a system Administrator I want to enquire about more facilities so that I can add details to the profile.* | *8* | *I4=19* | *4* |
|  | *10.As a system Administrator I want to accommodate available facilities so that I can access available facility* | *8* |
|  | *3.As a system Administrator I want to filter specific place a place so that I can scrutinize the data* | *3* |
|  | *12.As a system Administrator I want to maintain record changes so that I can keep track of every action done by the system* | *8* | *I5=18* | *5* |
|  | *13.As a system Administrator I want to assemble place data so that I can access the information centres easily* | *5* |
|  | *16.As a system Administrator I want to notify place registration so that I can convey it to the centres.* | *5* |
|  | *15.As a system Administrator I want to give limited access so that I can maintain the privacy of the place details* | *8* | *I6=16* | *6* |
|  | *17.As a system Administrator I want to notify illegal document so that I can request for valid documents* | *8* |

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| ***Process-2*** | ***Check place Authenticity*** | ***SP*** | ***IC*** | ***IP*** |
|  | *1.As a system Administrator I want to run offline check so that i can authenticate online details.* | *5* | *I1=20* | *1* |
|  | *2.As a system Administrator I want to ask a place photograph*  *so that I can certify place details* | *2* |
|  | *5.As a system Administrator I want to investigate provided documents*  *so that I can verify the legitimacy.* | *13* |
|  | *4.As a system Administrator I want to access user review so that I can*  *check authenticity of service availability* | *5* | *I2=20* | *2* |
|  | *7.As a system Administrator I want to enquire service execution*  *so that I can trust the system.* | *13* |
|  | *15.As a system Administrator I want to enlist authenticated services*  *so that I can convey to authorities* | *2* |
|  | *8.As a system Administrator I want to identify fake services*  *so that I can notify survival a centre.* | *5* | *I3=20* | *3* |
|  | *9.As a system Administrator I want to access developer logins so that I can*  *verify developers* | *13* |
|  | *12.As a system Administrator I want to retrieve treatment details*  *so that I can know available facilities* | *2* |
|  | *3. As a system Administrator I want to place registration number so that I can crosscheck with government details.* | *8* | *I4=19* | *4* |
|  | *6.As a system Administrator I want to corroborate data accuracy so that I can*  *evaluate efficiency.* | *8* |
|  | *11.As a system Administrator I want to fetch amenities*  *so that I can to know available facilities* | *3* |
|  | *10.As a system Administrator I want to track developer work*  *so that I can calculate developer experience* | *3* | *I5=19* | *5* |
|  | *13.As a system Administrator I want to notify fake services*  *so that I can send warning messages* | *5* |
|  | *14.As a system Administrator I want to request proofs*  *so that I can validate available services* | *8* |
|  | *16.As a system Administrator I want to display place authentication*  *so that I can notify authenticated services* | *3* |

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| ***Objective-2*** | ***Launch place Controls*** | ***SP*** | ***IC*** | ***IP*** |
| ***Task Description*** | *1.As a system Administrator I want to Access survival place database so that I can Avail all the details* | *5* | *I1=20* | *1* |
|  | *3.As a system Administrator I want to Assign developer controls*  *so that I can Restrict place controls.* | *13* |
|  | *4.As a system Administrator I want to Manage user privileges*  *so that I can Limit user controls.* | *2* |
|  | *2. As a system Administrator I want to Define place controls*  *so that I can Assign place controls.* | *8* | *I2=20* | *2* |
|  | *7.As a system Administrator I want to Provide privacy policy*  *so that I can Assure client security.* | *8* |
|  | *9.As a system Administrator I want to Maintain group profile*  *so that I can Announce notifications, privacy and permissions* | *2* |
|  | *6.As a system Administrator I want to Present work timeline*  *so that I can View work list.* | *2* |
|  | *5.As a system Administrator I want to Enable Administrator privileges*  *so that I can Have full control over a place account.* | *8* | *I3=20* | *3* |
|  | *8.As a system Administrator I want to Display dashboard*  *so that I can Access avail services.* | *3* |
|  | *10.Attach support inbox as a system Administrator I want to*  *so that I can Save the messages.* | *2* |
|  | *11.As a system Administrator I want to Define setting parameters*  *so that I can Create account settings.* | *3* |
|  | *12.As a system Administrator I want to Enlist language support so that I can Provide language list* | *2* |
|  | *13.As a system Administrator I want to Provide notification*  *so that I can Notify survival centres* | *2* |
|  | *14.As a system Administrator I want to Render tracking service*  *so that I can Track the services.* | *5* | *I4=18* | *4* |
|  | *15.As a system Administrator I want to Enable migration service*  *so that I can Allow place migration.* | *5* |
|  | *16.As a system Administrator I want to Permit limited database access*  *so that I can Be assured that information is transferred.* | *8* |

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| ***Process-1*** | ***Assign place Privileges*** | ***SP*** | ***IC*** | ***IP*** |
|  | *1.As a place Administrator I want to Create A place Role so that I can Assign privileges to each role differently* | *5* | *I1=20* | *1* |
|  | *2.As a place Administrator I want to Export account data*  *Backup emails data from entire accounts* | *13* |
|  | *8.As a place Administrator I want to Manage User Accounts*  *so that I can Control all user accounts from control panel.* | *2* |
|  | *2.As a place Administrator I want to Define Access restriction so that I can Limit a place privileges* | *8* | *I2=20* | *2* |
|  | *3.As a place Administrator I want to Enable Administrator Privileges*  *so that I can Empower Administrators with full control over place account* | *5* |
|  | *5.As a place Administrator I want to Set Roles and privileges*  *so that I can Allot varying levels of privileges to each user.* | *5* |
|  | *14.As a place Administrator I want to Fetch facility details so that I can*  *Assign place privileges* | *2* |
|  | *6.As a place Administrator I want to Monitor Audit log so that I can*  *Track place a place activities* | *8* | *I3=20* | *3* |
|  | *7.As a place Administrator I want to Provide Email Policies so that I can*  *Setup restriction on mailbox.* | *5* |
|  | *9.As a place Administrator I want to Link User profile so that I can*  *Link user to the name authority* | *5* |
|  | *15. As a place Administrator I want to Ask privileges report*  *Review the privileges.* | *2* |
|  | *10.As a place Administrator I want to Notice unusual activity*  *Block malicious user account* | *8* | *I4=18* | *4* |
|  | *11.As a place Administrator I want to Provide Authorization so that I can*  *Grant permission to perform action on system re sources* | *5* |
|  | *16.As a place Administrator I want to Define new privileges*  *Reassign if necessary* | *5* |
|  | *12As a place Administrator I want to Enable Access Control*  *Protect system re sources from unauthorized access* | *8* | *I5=16* | *5* |
|  | *13.As a place Administrator I want to Avail User level permission*  *Set exclusive privileges on working object* | *8* |

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| ***Process-2*** | ***Release place controls*** | ***SP*** | ***IC*** | ***IP*** |
| ***Task Description*** | *1. As a system Administrator I want to Fetch Centres Database so that I can Prepare the data using the details* | *5* | *I1=20* | *1* |
|  | *6. As a system Administrator I want to check centres graph*  *so that I can cross-validate the graph of* | *13* |
|  | *2. As a system Administrator I want to Detect place Facilities so that I can Manage place facilities* | *2* |
|  | *3. As a system Administrator I want to review place work so that I can*  *rank them in order* | *8* | *I2=20* | *2* |
|  | *5. As a system Administrator I want to record centres’ statistic*  *so that I can gather this record and inform the unselected centres about it* | *5* |
|  | *7. As a system Administrator I want to generate place template*  *so that I can maintain uniformity regarding the format of the message* | *5* |
|  | *4. As a system Administrator I want to formulate information graph so that I can*  *provide precise information* | *2* |
|  | *8. As a system Administrator I want to notify place report*  *so that I can approach the centres for the vacan cies created* | *5* | *I3=20* | *3* |
|  | *9 As a system Administrator I want to. Examine place facilities*  *so that I can derive errors if any.* | *13* |
|  | *10. As a system Administrator I want to provide place statistics*  *so that I can make it available for future use* | *2* |
|  | *11. As a system Administrator I want to generate features graph*  *so that I can improve the graph* | *5* | *I4=18* | *4* |
|  | *13. As a system Administrator I want to evaluate different strategy so that I can choose appropriate strategy* | *5* |
|  | *14. As a system Administrator I want to upload place details*  *so that I can obtain place privileges* | *8* |
|  | *12. As a system Administrator I want to plot place graph*  *so that I can create a understandable statistics* | *3* | *I5=16* | *5* |
|  | *15. As a system Administrator I want to access place data*  *so that I can prioritize the services* | *5* |
|  | *16 As a system Administrator I want to access place controls*  *so that I can use place privileges* | *8* |

***User Stories Goal 2- Rank archaeological places***

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| ***Objective-1*** | ***Catalogue places*** | ***SP*** | ***IC*** | ***IP*** |
| ***Task Description*** | *4. As a place Manager I want to Record intake location so that I can Save location details.* | *13* | *I1=20* | *1* |
|  | *6. As a place Manager I want to Set Catalogue Parameter so that I can Organize place details* | *5* |
|  | *2. As a place Manager I want to Ascertain place species so that I can Categorize the places.* | *2* |
|  | *8. As a place Manager I want to Browse place feature*  *so that I can Match with existing data* | *13* | *I2=20* | *2* |
|  | *10. As a place Manager I want to Decide attribute ranges so that I can Compare abnormalities of data* | *5* |
|  | *15. As a place Manager I want to Catalogue Places so that I can Use while reporting place* | *2* |
|  | *13. As a place Manager I want to Produce the correct data so that I can Re solve the abnormality issue* | *13* | *I3=18* | *5* |
|  | *14. As a place Manager I want to Correct found abnormality so that I can Refine the data* | *5* |
|  | *11. As a place Manager I want to Inspect catalogue database so that I can Sieve abnormalities* | *8* | *I4=19* | *3* |
|  | *5. As a place Manager I want to Record Place Details so that I can Store into database* | *8* |
|  | *1. As a place Manager I want to Observe place living condition so that I can Determine whether place is missing, pet or roadside.* | *3* |
|  | *12. As a place Manager I want to Search for inadequate data so that I can Identify missing and null data* | *8* | *I5=19* | *4* |
|  | *16. As a place Manager I want to Commit database changes so that I can Render the changes to the team* | *8* |
|  | *3. As a place Manager I want to Determine breed type so that I can Find characteristics.* | *3* |
|  | *7. As a place Manager I want to Take place photograph so that I can Identify place* | *5* | *I6=8* | *6* |
|  | *9. As a place Manager I want to Assert place breed so that I can Mention in the place catalogues* | *3* |

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| ***Process-1*** | ***Create Place portfolio*** | ***SP*** | ***IC*** | ***IP*** |
| ***Task Description*** | *4. As a place Manager I want to List breed characteristics so that I can Use for further actions.* | *13* | *I1=20* | *1* |
|  | *1. As a place Manager I want to Observe place living condition so that I can Determine whether place is missing, pet or roadside.* | *5* |
|  | *9. As a place Manager I want to Verify place data so that I can ensure data correctness* | *2* |
|  | *3. As a place Manager I want to Determine breed type so that I can Find characteristics* | *8* | *I2=20* | *2* |
|  | *2. As a place Manager I want to Ascertain place species so that I can Categorize the places.* | *5* |
|  | *5. As a place Manager I want to Identify body marks so that I can Identify place uniqueness.* | *3* |
|  | *10. As a place Manager I want to Group attribute data so that I can Examine data distribution.* | *1* |
|  | *8. As a place Manager I want to Pre-process places attribute details so that I can Analyse place behavioural changes* | *8* | *I3=20* | *3* |
|  | *12. As a place Manager I want to Con solidate final data with features so that I can use it to train statistical models* | *8* |
|  | *7. As a place Manager I want to Identify all other attributes so that I can Use it for pre-processing* | *3* |
|  | *14. As a place Manager I want to Avoid duplication so that I can Remove data redundancy* | *1* |
|  | *15. As a place Manager I want to Create place portfolio so that I can Maintain place record* | *8* | *I4=19* | *4* |
|  | *16. As a place Manager I want to Record into place database so that I can Use it in future.* | *8* |
|  | *13. As a place Manager I want to Identify missing details so that I can Prevent data inconsistency.* | *3* |
|  | *6. As a place Manager I want to Recognize coat type so that I can Specify place precisely* | *8* | *I5=13* | *5* |
|  | *11. As a place Manager I want to Retrieve owner details so that I can Notify owner future activities.* | *5* |

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| ***Process-2*** | ***Register Place Feature*** | ***SP*** | ***IC*** | ***IP*** |
| ***Task Description*** | *7. As a Database Administrator I want to Record formulated observations so that I can discuss with the analysis team* | *13* | *I1=20* | *1* |
|  | *2. As a Database Administrator I want to Design patterns for attributes so that I can study the data* | *5* |
|  | *3. As a Database Administrator I want to Conceptualise output parameters so that I can process of analysing is directed* | *2* |
|  | *13. As a Database Administrator I want to Group and compare attributes so that I can examine data distribution* | *13* | *I2=20* | *2* |
|  | *4. As a Database Administrator I want to Prioritise the important parameters so that I can produce accurate results* | *5* |
|  | *6. As a Database Administrator I want to Organise the parameters so that I can simplify analysis process* | *2* |
|  | *1. As a Database Administrator I want to Organise place database attributes so that I can easily analyse the data* | *8* | *I3=20* | *3* |
|  | *8. As a Database Administrator I want to Correspond with Analysis team so that I can refine the observations* | *5* |
|  | *15. As a Database Administrator I want to Con solidate outline of analysis process so that I can systemize procedure* | *5* |
|  | *12. As a Database Administrator I want to Pre-process places attribute details so that I can Analyse place behavioural changes* | *2* |
|  | *5. As a Database Administrator I want to Map shortlisted attributes so that I can formalize the observations* | *8* | *I4=19* | *4* |
|  | *9. As a Database Administrator I want to Con solidate outline analysis process so that I can systemize procedure* | *8* |
|  | *11. As a Database Administrator I want to Compare attributes between places so that I can Decide what attributes are important.* | *3* |
|  | *10. As a Database Administrator I want to Corroborate consistency of selected attributes so that I can prevent problems affecting further process* | *8* | *I4=16* | *5* |
|  | *14. As a Database Administrator I want to Evaluate different feature selection strategies so that I can Filter place among all* | *8* |
|  | *16. As a Database Administrator I want to Construct final analysis methodology so that I can begin development process* | *8* | *I6=13* | *6* |
|  | *17. As a Database Administrator I want to Register Place Features so that I can Use for further processing* | *5* |

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| ***Objective-2*** | ***Prepare Place Comfort Chart*** | ***SP*** | ***IC*** | ***IP*** |
| ***Task Description*** | *8. As an centre Manager I want to Know Place Welfare Assessment so that I can Understand physiologically, behaviourally growing needs* | *13* | *I1=20* | *1* |
|  | *2. As an centre Manager I want to Filter place wise information so that I can Create Count of place* | *5* |
|  | *6. As an centre Manager I want to Measure housing environment so that I can Arrange services* | *2* |
|  | *1. As an centre Manager I want to Retrieve place data source so that I can have place information* | *8* | *I2=20* | *2* |
|  | *14. As an centre Manager I want to Inform the Authorities so that I can Make further process* | *5* |
|  | *16. As an centre Manager I want to Store details into database so that I can Use it in future* | *5* |
|  | *10. As an centre Manager I want to Give emotional support so that I can Assure Sustainability of place* | *2* |
|  | *3. As an centre Manager I want to sort test results according to criteria so that I can Understand the Comfort zone of place* | *8* | *I3=19* | *3* |
|  | *4. As an centre Manager I want to Know place type so that I can Make filter based on this* | *8* |
|  | *5. As an centre Manager I want to Know food available so that I can Maintain type of food* | *3* |
|  | *7. As an centre Manager I want to Score body condition & lameness so that I can Prepare health report* | *8* | *I4=19* | *4* |
|  | *9. As an centre Manager I want to Identify Nutritional changes so that I can Analysis the behaviour.* | *8* |
|  | *11. As an centre Manager I want to Find Behavioural expectation so that I can Expect the reaction.* | *3* |
|  | *12. As an centre Manager I want to Ascertain Species so that I can Add data to the chart* | *3* | *I5=19* | *5* |
|  | *13. As an centre Manager I want to Secure Location Access so that I can Keep place safe.* | *8* |
|  | *15. As an centre Manager I want to Confirm place data so that I can Store into database* | *8* |

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| ***Process-1*** | ***Gather Living Conditions*** | ***SP*** | ***IC*** | ***IP*** |
| ***Task Description*** | *4. As a tester I want to Assess Place welfare conditions so that I can Add data to the chart* | *13* | *I1=20* | *1* |
|  | *1. As a tester I want to Know the type of place so that I can Make filter based on this* | *5* |
|  | *6. As a tester I want to Find Behavioural expectation so that I can Expect behavioural changes.* | *2* |
|  | *16. As a tester I want to Improve living condition Result so that I can To make improvement in the system* | *13* | *I2=20* | *2* |
|  | *8. As a tester I want to Corroborate selected attributes consistency so that I can prevent problems affecting further process* | *5* |
|  | *7. As a tester I want to List available places attributes so that I can choose attributes to be considered* | *2* |
|  | *3. As a tester I want to Gather environmental body effects so that I can Avoid that exposure* | *8* | *I3=20* | *3* |
|  | *9. As a tester I want to Compare attributes between places so that I can Decide what attributes are important* | *8* |
|  | *2. As a tester I want to Assess surrounding environment so that I can Know Environmental differences* | *3* |
|  | *5. As a tester I want to Detect emotional characteristics so that I can Give emotional support* | *1* |
|  | *13. As a tester I want to Filter Different living condition so that I can Maintain the domain in the strategies* | *8* | *I4=19* | *5* |
|  | *15. As a tester I want to Integrate results so that I can Integrate results for the betterment of living condition* | *8* |
|  | *10. As a tester I want to Pre-process places attribute details so that I can Analyse place behavioural changes* | *3* |
|  | *11. As a tester I want to Use different feature selection strategies so that I can Categorize the places based on features.* | *5* | *I5=20* | *4* |
|  | *12. As a tester I want to Acquire living condition Difficulty so that I can Create questionnaires about living condition* | *5* |
|  | *14. As a tester I want to Store Place Results so that I can Access them in further living condition* | *5* |
|  | *17. As a tester I want to Store Details into database so that I can Use later stage* | *5* |

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| ***Process-2*** | ***Register Continental Details*** | ***SP*** | ***IC*** | ***IP*** |
| ***Task Description*** | *17. As a Place visitor I want to Register Continental details so that I can Use into place registration* | *13* | *I1=20* | *1* |
|  | *1. As a Place visitor I want to Set mandatory field so that I can maintain consistency of database* | *5* |
|  | *16. As a Place visitor I want to Discuss Place Analysis so that I can Ensure system correctness* | *2* |
|  | *5. As a Place visitor I want to Register continental details into database so that I can store new continental details* | *8* | *I2=20* | *2* |
|  | *9. As a Place visitor I want to Promote Database structure so that I can accommodate details in continental details* | *8* |
|  | *2. As a Place visitor I want to Ascertain Continental details so that I can make system as accurate as possible* | *3* |
|  | *3. As a Place visitor I want to Set fields detail so that I can add Continental details* | *1* |
|  | *11. As a Place visitor I want to Get continents curate list so that I can Compare available places* | *8* | *I3=19* | *4* |
|  | *13. As a Place visitor I want to Provide Precise information so that I can Give Information about the places* | *8* |
|  | *14. As a Place visitor I want to Validate information so that I can Store data efficiently in database* | *3* |
|  | *4. As a Place visitor I want to Accept Continental details inputs so that I can Store new continental details* | *5* | *I4=20* | *3* |
|  | *8. As a Place visitor I want to Decide appropriate sorting for database so that I can create a relative rating index* | *5* |
|  | *10. As a Place visitor I want to Create log file so that I can keep track of changes made* | *5* |
|  | *12. As a Place visitor I want to Ensure adequate places availability so that I can Quickly complete survey.* | *5* |
|  | *6. As a Place visitor I want to Set limits and bounds in database so that I can keep the data relative and realistic* | *3* | *I5=9* | *5* |
|  | *7. As a Place visitor I want to Evoke continental details so that I can compare continents* | *3* |
|  | *15. As a Place visitor I want to Record Formulated Observations so that I can discuss with the analysis team* | *3* |

***3. USER STORIES: GOAL 3– Categorize places***

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| ***Objective-1*** | ***Classify place status*** | ***SP*** | ***IC*** | ***IP*** |
|  | *1.As a tester I want to Organize place Portfolio so that I can Study and Observe place status and behaviour.* | *5* | *I1=20* | *1* |
|  | *4.As a tester I want to Validate place Information*  *so that I can Provide reliable information to the tester team* | *13* |
|  | *2.As a tester I want to Access survival place database*  *so that I can Retrieve Place Information about various aspects.* | *2* |
|  | *3.As a tester I want to Access Place Comfort Chart so that I can*  *Use the relative information for further analysis.* | *5* | *I2=20* | *2* |
|  | *5.As a tester I want to Maintain Record Changes so that I can*  *Keep track of every action done by the system* | *8* |
|  | *6.As a tester I want to Create status categories*  *so that I can Categorize the status.* | *2* |
|  | *7.As a tester I want to Study place status a fully*  *so that I can Classify the place status* | *5* | *I3=20* | *3* |
|  | *9.As a tester I want to Feed the database*  *so that I can Access it in future.* | *8* |
|  | *10.As a tester I want to Observe Place Behaviour*  *so that I can Note down the characteristics.* | *5* |
|  | *11.As a tester I want to Note down behavioural changes*  *so that I can Expect the place behaviour.* | *2* |
|  | *8.As a tester I want to Create place status chart*  *so that I can Use it for further process.* | *5* | *I4=18* | *4* |
|  | *12.As a tester I want to Categorize place status*  *so that I can Classify places* | *8* |
|  | *13.As a tester I want to Communicate the users*  *so that I can Convey them the place status* | *5* |
|  | *14.As a tester I want to Arrange A place meeting*  *so that I can Discuss further process.* | *8* | *I5=18* | *5* |
|  | *15.As a tester I want to Derive status report*  *so that I can Provide to the users.* | *5* |
|  | *16.As a tester I want to Correspond with analysis team*  *so that I can Convey the changes.* | *5* |

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| ***Process-1*** | ***Certify place status*** |  |  |  |
|  | *1.As a tester I want to Access place database so that I can Get place status information* | *5* | *I1=20* |  |
|  | *12.As a tester I want to Certify place status*  *so that I can Provide documented Proof.* | *13* | *1* |
|  | *4.As a tester I want to Identify the changes so that I can*  *Make changes in the database.* | *2* |
|  | *2.As a tester I want to Get place status chart so that I can Study place status* | *5* | *I2=20* | *2* |
|  | *3.As a tester I want to Reorganize place portfolio*  *so that I can Update the data* | *8* |
|  | *9.As a tester I want to Verify place status*  *so that I can Confirm the status* | *2* |
|  | *5.As a tester I want to Register status features*  *so that I can Use it for further actions.* | *8* | *I3=20* | *3* |
|  | *7.As a tester I want to Remove inconsistent data*  *so that I can Make consistent database.* | *8* |
|  | *15.As a tester I want to Provide Status Report*  *so that I can Ensure whether user are satisfied with tester activities* | *3* |
|  | *16.As a tester I want to Save Report Details*  *so that I can Use it for further process* | *1* |
|  | *6.As a tester I want to Study status characteristics*  *so that I can Observe the changes.* | *5* | *I4=18* | *4* |
|  | *8.As a tester I want to Create log File*  *so that I can Record saved data.* | *5* |
|  | *10.As a tester I want to Reregister place status*  *so that I can Use updated data.* | *8* |
|  | *11.As a tester I want to Inform all the authorities*  *so that I can Process further actions.* | *8* | *I5=15* | *5* |
|  | *13.As a tester I want to Inform the respected user*  *so that I can Get user acknowledgement.* | *5* |
|  | *14.As a tester I want to Enlist certified places*  *so that I can Add to the database* | *2* |

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| ***Process-2*** | ***Register place status*** | ***SP*** | ***IC*** | ***IP*** |
|  | *1.As an System administrator I want to Retrieve Place a place database so that I can*  *Access place information* | *5* | *I1=20* | *1* |
|  | *2.As an System administrator I want to Get place Profiles*  *so that I can Utilize more information* | *13* |
|  | *3.As an System administrator I want to Study place status chart*  *so that I can observe the characteristics* | *2* |
|  | *4.As an System administrator I want to Get categorized status*  *so that I can Determine status registration options* | *8* | *I2=20* | *2* |
|  | *9.As an System administrator I want to Group and compare attributes*  *so that I can examine data distribution* | *8* |
|  | *7.As an System administrator I want to Draw a map for the shortlisted attributes*  *so that I can formalize the observations* | *2* |
|  | *12.As an System administrator I want to Register place status*  *so that I can Convey the user* | *2* |
|  | *5.As an System administrator I want to Contact system Designer*  *so that I can Get analysed data* | *5* | *I3=20* | *3* |
|  | *6.As an System administrator I want to Study analysed data*  *so that I can Compare the status* | *5* |
|  | *10.As an System administrator I want to Consult with authorities*  *so that I can Consider place registration.* | *8* |
|  | *14.As an System administrator I want to See If Space is available*  *so that I can Register new places* | *2* |
|  | *8.As an System administrator I want to Pre-process places attribute details*  *so that I can Analyse place behavioural changes* | *5* | *I4=18* | *4* |
|  | *11.As an System administrator I want to Verify consistency of selected attributes*  *so that I can prevent problems affecting further process* | *8* |
|  | *13.As an System administrator I want to Reorganize status details*  *so that I can Add to database* | *5* |
|  | *15.As an System administrator I want to Validate Place data*  *so that I can Ensure process Correctness.* | *5* | *I5=13* | *5* |
|  | *16.As an System administrator I want to Search for additional data*  *so that I can Add the details.* | *8* |

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| ***Objective-2*** | ***Search Place*** | ***SP*** | ***IC*** | ***IP*** |
|  | *1.As a Visitor I want to Fetch place data so that I can*  *Study place data.* | *5* | *I1=20* | *1* |
|  | *6.As a Visitor I want to Give inspection appointments*  *so that I can Prioterize the work easily* | *13* |
|  | *2.As a Visitor I want to Access place status chart*  *so that I can Study a fully place status* | *2* |
|  | *3.As a Visitor I want to Build Queries template*  *so that I can Prepare sequence chart.* | *8* | *I2=20* | *2* |
|  | *5.As a Visitor I want to Access place comfort chart*  *so that I can Study their weak points.* | *8* |
|  | *12.As a Visitor I want to Maintain Record Changes*  *so that I can Keep track of every action done by the system* | *2* |
|  | *13.As a Visitor I want to Present place data*  *so that I can Make arrangement of required treatment* | *2* |
|  | *4.As a Visitor I want to Categorize place health severity so that I can Prioritize the place inspection sequence* | *5* | *I3=18* | *3* |
|  | *10.As a Visitor I want to Suggest necessary treatment*  *so that I can Diagnose next place.* | *13* |
|  | *7.As a Visitor I want to Diagnose place A fully*  *so that I can Give treatment successfully.* | *13* | *I4=18* | *4* |
|  | *8.As a Visitor I want to Make note of points*  *so that I can Use it for further actions.* | *5* |
|  | *9.As a Visitor I want to Discuss with other veterinaries so that I can Confirm the treatment.* | *5* | *I5=18* | *5* |
|  | *11.As a Visitor I want to Inspect Place injury severity*  *so that I can Suggest surgery treatment.* | *8* |
|  | *14.As a Visitor I want to Find root cause of disease*  *so that I can Avoid future happening.* | *5* |
|  | *15.As a Visitor I want to Schedule the work*  *so that I can Complete in time.* | *8* | *I6=16* | *6* |
|  | *16.As a Visitor I want to Diagnose all the places*  *so that I can Prepare a data chart.* | *8* |

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| ***Process-1*** | ***Identify Places*** | ***SP*** | ***IC*** | ***IP*** |
| ***Task Description*** | *1.As a visitor I want to visit place health so that I can*  *Identify place symptoms.* | *5* | *I1=20* | *1* |
|  | *3.As a visitor I want to Validate place Information*  *so that I can Take Further Actions.* | *13* |
|  | *15.As a visitor I want to Provide Data Format*  *so that I can Maintain a proper format for dates.* | *2* |
|  | *2.As a visitor I want to Access place database so that I can*  *Study relevant information.* | *8* | *I2=19* | *2* |
|  | *4.As a visitor I want to Eliminate Irrelevant Information*  *so that I can Avoid confusion* | *8* |
|  | *16.As a visitor I want to Promote place database*  *so that I can Use it for further processing.* | *3* |
|  | *5.As a visitor I want to Study place Injuries*  *so that I can Note down Place symptoms.* | *5* | *I3=20* | *3* |
|  | *6.As a visitor I want to Observe place Symptoms*  *so that I can Derive the injury type.* | *13* |
|  | *12.As a visitor I want to Create report File*  *so that I can Maintain record of symptoms.* | *2* |
|  | *7.As a visitor I want to Determine injury or symptoms severity*  *so that I can Take some more test* | *8* | *I4=18* | *4* |
|  | *11.As a visitor I want to Convey the user about status*  *so that I can Process further actions.* | *5* |
|  | *14.As a visitor I want to Clear diagnosed place*  *so that I can Study another place.* | *5* |
|  | *8.As a visitor I want to Take some medical test*  *so that I can Clear the assumptions.* | *13* | *I5=18* | *5* |
|  | *9.As a visitor I want to Demand test report*  *so that I can Study the report* | *5* |
|  | *10.As a visitor I want to Verify Test report*  *so that I can Convey to the authorities.* | *8* | *I6=18* | *6* |
|  | *13.As a visitor I want to Access Survival place Details*  *so that I can Suggest best fit centre.* | *5* |

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| ***Process-2*** | ***Generate visitor analysis report*** | ***SP*** | ***IC*** | ***IP*** |
| ***Task Description*** | *1As an Developer I want to Access place database so that I can*  *Extract important information.* | *5* | *I1=20* | *1* |
|  | *3.As an Developer I want to Communicate with Visitor so that I can*  *Get help in report making.* | *13* |
|  | *9.As an Developer I want to Categorize the place details*  *so that I can Make proper format.* | *2* |
|  | *2.As an Developer I want to Retrieve place Status chart so that I can Use it for report making.* | *8* | *I2=20* | *2* |
|  | *4.As an Developer I want to Extract all the place files so that I can Get all the relevant information.* | *5* |
|  | *7.As an Developer I want to Communicate with tester so that I can*  *Discuss place behaviour.* | *5* |
|  | *11.As an Developer I want to Add various elements to the report so that I can generate a thorough detail.* | *2* |
|  | *6.As an Developer I want to Verify data in the database so that I can*  *Authenticate the data.* | *13* | *I3=20* | *3* |
|  | *13.As an Developer I want to Add report to place files. so that I can*  *Show it whenever requested.* | *2* |
|  | *14.As an Developer I want to Register place as diagnosed*  *so that I can Process further reports.* | *5* |
|  | *5.As an Developer I want to Study Previously generated reports so that I can*  *Use the data in final report* | *8* | *I3=19* | *4* |
|  | *8.As an Developer I want to Contact with so that I can*  *Know the report well.* | *8* |
|  | *10.As an Developer I want to Get the various test report*  *so that I can Generate a final report.* | *3* |
|  | *15.As an Developer I want to Study Health report*  *so that I can Recommend survival centre.* | *13* | *I5=18* | *5* |
|  | *16.As an Developer I want to Categorize health reports*  *so that I can Measure the serious issues.* | *5* |
|  | *12.As an Developer I want to Confirm Final Report*  *so that I can Convey the End user or place Owner.* | *8* | *I6=8* | *6* |

# *4.USER STORIES: GOAL 4- Generate tourists alert*

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| ***Objective-1*** | ***Search Nearby places*** | ***SP*** | ***IC*** | ***IP*** |
| ***Task Description*** | *7.As a tester I want to Record user Queries so that I can Each queries must be recorded in database* | *13* | *I1=20* | *1* |
|  | *9.As a tester I want to Build Queries template so that I can Make a template for sending the information to developer* | *5* |
|  | *3.As a tester I want to Request facilitator so that I can tour the fitness centre* | *2* |
|  | *1.As a tester I want to Retrieve A place Database so that I can Accumulate all the information regarding A Centre* | *8* | *I2=20* | *2* |
|  | *6.As a tester I want to Provide Precise information so that I can Give Information about the user queries* | *8* |
|  | *2.As a tester I want to Take a place tour so that I can observe the a place facilities.* | *3* |
|  | *4.As a tester I want to Examine A place facilities so that I can Understand the quality of the a centre.* | *1* |
|  | *8.As a tester I want to Inform Queries Result so that I can Provide information about the user queries to developer* | *8* | *I3=20* | *3* |
|  | *10.As a tester I want to Notify unselected Queries so that I can Discard the unnecessary problems* | *8* |
|  | *5.As a tester I want to ensure machine availability so that I can identify available treatments.* | *3* |
|  | *15.As a tester I want to Avoid Space Wastage so that I can Remove the unnecessary information* | *1* |
|  | *12.As a tester I want to Make Future availability so that I can Make it available for future use* | *8* | *I4=20* | *4* |
|  | *11.As a tester I want to Finalize Queries Content so that I can Provide the Developer with the queries statistics* | *5* |
|  | *16.As a tester I want to Promote Query Graph so that I can Update the query form according to feedback* | *5* |
|  | *14.As a tester I want to Evaluate Feature Selection so that I can Choose appropriate strategy for queries* | *2* |
|  | *13.As a tester I want to Provide Cross-validation so that I can Provide a correct required details* | *3* | *I5=3* | *5* |

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| ***Process-1*** | ***Gather place Information*** | ***SP*** | ***IC*** | ***IP*** |
| ***Task Description*** | *1.As a place Manager I want to Trace User Location so that I can Identify where user is* | *13* | *I1=20* | *1* |
|  | *3.As a place Manager I want to Validate User Location so that I can Identify the authenticity of user location* | *5* |
|  | *7.As a place Manager I want to Inspect User Location so that I can Analyse its importance* | *2* |
|  | *18.As a place Manager I want to Cluster place Information so that I can User can access best nearby place a centre* | *13* | *I2=20* | *2* |
|  | *5.As a place Manager I want to Promote User Location so that I can Keep my database update regarding user location* | *5* |
|  | *13.As a place Manager I want to Discover A place so that I can Make system as accurate as possible* | *2* |
|  | *2.As a place Manager I want to Corroborate User Location so that I can See that user location is correct* | *8* | *I3=19* | *4* |
|  | *4.As a place Manager I want to Identify Nearby Places so that I can Locate the user easily* | *8* |
|  | *6.As a place Manager I want to Hoard User Location so that I can Use it for future use* | *3* |
|  | *8.As a place Manager I want to Determine User Location so that I can Send emergency alerts whenever user is trapped in dangerous situations* | *5* | *I4=20* | *3* |
|  | *11.As a place Manager I want to Fetch A place Database so that I can Accumulate all the information regarding queries* | *­5* |
|  | *14.As a place Manager I want to Set details fields in database so that I can Add place a place details* | *5* |
|  | *17.As a place Manager I want to Decide appropriate database sort so that I can create a relative rating index* | *5* |
|  | *9.As a place Manager I want to Cross Validate User Location so that I can know the exact and correct user location* | *8* | *I5=19* | *5* |
|  | *10.As a place Manager I want to Conserve User Location so that I can Send emergency alerts to a centre* | *8* |
|  | *12.As a place Manager I want to Filter Query Result so that I can Classify User according to interest* | *3* |
|  | *15.As a place Manager I want to Accept A place Profile Inputs so that I can Add new place a centres profile* | *8* | *I6=11* | *6* |
|  | *16.As a place Manager I want to Inhabit A place details so that I can Compare place a centres as per Services* | *3* |

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| ***Process-2*** | ***Obtain Developer Information*** | ***SP*** | ***IC*** | ***IP*** |
| ***Task Description*** | *3.As an centre Manager I want to ensure data correctness so that I can check developer data* | *13* | *I1=20* | *1* |
|  | *2.As an centre Manager I want to accumulate Developer Data so that I can extract the data* | *5* |
|  | *4.As an centre Manager I want to extract Useful Information so that I can process it for further changes* | *2* |
|  | *9.As an centre Manager I want to process Feedback Details so that I can ensure the developer performance* | *13* | *I2=20* | *2* |
|  | *7.As an centre Manager I want to display Developer Experience so that I can assure user about developers growth* | *5* |
|  | *16As an centre Manager I want to Create Statistical report so that I can provide it to users* | *2* |
|  | *1.As an centre Manager I want to obtain Place A place Details so that I can Obtain developer information* | *8* | *I3=19* | *3* |
|  | *8.As an centre Manager I want to access Feedback about Developer so that I can check the users feedback* | *8* |
|  | *5.As an centre Manager I want to arrange Meeting Schedules so that I can Report developer activities to users* | *3* |
|  | *10.As an centre Manager I want to Make System Secure so that I can avoid hampering of the result of candidates in the online test* | *8* | *I4=19* | *4* |
|  | *12.As an centre Manager I want to sort Developer so that I can easily obtain the details of the selected developer* | *8* |
|  | *13.As an centre Manager I want to preserve Interested Field so that I can convey the selected developers individually to the services* | *3* |
|  | *15.As an centre Manager I want to organize Data System so that I can access the information of developers easily* | *8* | *I5=18* | *5* |
|  | *11.As an centre Manager I want to obtain Developer Achievements so that I can Modify the database according to the result* | *5* |
|  | *18.I want to Get Expert Details so that I can demonstrate the results* | *5* |
|  | *6.As an centre Manager I want to extract Developer Data so that I can achieve the speed of retrieval* | *3* | *I6=9* | *6* |
|  | *14.As an centre Manager I want to evaluate Developers Ability so that I can evaluate the Developers critical ability* | *3* |
|  | *17.As an centre Manager I want to Know if changes are to be made so that I can Keep the system updated* | *3* |

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| ***Objective-2*** | ***Assign ranked places*** | ***SP*** | ***IC*** | ***IP*** |
| ***Task Description*** | *3.As a place Manager I want to extract tester information so that I can Use it for the assigning of taker* | *13* | *I1=20* | *1* |
|  | *1.As a place Manager I want to add large number of developer so that I can Make developer assignment easier* | *5* |
|  | *12.As a place Manager I want to Make a precise database so that I can Use it to display to users* | *2* |
|  | *10.As a place Manager I want to find services provided byte ster so that I can assign ataker.* | *13* | *I2=20* | *2* |
|  | *4.As a place Manager I want to Investigate searched abnormality so that I can Verify the legitimacy* | *5* |
|  | *16.As a place Manager I want to Know the data sources so that I can Trust the system* | *2* |
|  | *2.As a place Manager I want to Conservetesterin database so that I can easily find the tester as per a centre* | *8* | *I3=20* | *3* |
|  | *6.As a place Manager I want to Correct the found abnormality so that I can Refine the data* | *8* |
|  | *8.As a place Manager I want to Check already used data so that I can Roll back the incorrect data operations* | *3* |
|  | *13.As a place Manager I want to Track validation process so that I can Verify data* | *1* |
|  | *7.As a place Manager I want to Commit changes on database so that I can Render the changes to the team* | *8* | *I4=19* | *4* |
|  | *9.As a place Manager I want to Notify team about changes so that I can ensure consistency in the system* | *8* |
|  | *14.As a place Manager I want to Run background checks so that I can ascertain data correctness.* | *3* |
|  | *17.As a place Manager I want to establish tester background so that I can expect transparency* | *8* | *I5=19* | *5* |
|  | *20.As a place Manager I want to assign tester so that I can access best possible services.* | *8* |
|  | *19.As a place Manager I want to Survey market values so that I can Negotiate new contracts and transfer fees.* | *3* |
|  | *5.As a place Manager I want to produce the correct, improvised data so that I can Re solve the abnormality issue* | *5* | *I6=18* | *6* |
|  | *11.As a place Manager I want to Get correct tester prediction so that I can To recommend tester to user* | *5* |
|  | *18.As a place Manager I want to Create error free tester profile so that I can use it in future* | *5* |
|  | *15.As a place Manager I want to ensure tester Information so that I can protect tester data that I represent* | *3* |

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| ***Process-1*** | ***Confirm Place Status*** | ***SP*** | ***IC*** | ***IP*** |
| ***Task Description*** | *15.As a tester I want to Create Place Status Report so that I can communicate with User* | *13* | *I1=20* | *1* |
|  | *1.As a tester I want to access Current place status so that I can Make plan accordingly* | *5* |
|  | *4.As a tester I want to eliminate Irrelevant Information so that I can avoid confusion* | *2* |
|  | *6.As a tester I want to Conserve Record Changes so that I can Keep track of every action done by the system* | *8* | *I2=20* | *2* |
|  | *9.As a tester I want to Upload Users Documents so that I can Notify place status* | *8* |
|  | *2.As a tester I want to Check ambulance service required so that I can arrangement of ambulance* | *3* |
|  | *3.As a tester I want to Validate place Information so that I can provide reliable information to the tester team* | *1* |
|  | *13.As a tester I want to List out required treatment so that I can check availability of treatment* | *8* | *I3=20* | *3* |
|  | *14.As a tester I want to Find root cause of disease so that I can avoid future disease* | *8* |
|  | *8.As a tester I want to present place data so that I can Make arrangement of required treatment* | *3* |
|  | *7.As a tester I want to Create log file so that I can Store the changes made in the system* | *1* |
|  | *5.As a tester I want to Inform ambulance so that I can call ambulance to user location* | *5* | *I4=20* | *4* |
|  | *10.As a tester I want to provide Data Format so that I can Maintain a proper format for dates* | *5* |
|  | *12.As a tester I want to visit Place so that I can Identify required treatment* | *5* |
|  | *16.As a tester I want to Modify place status Maintain co-ordination between Survival A place and A taker* | *5* |
|  | *11.As a tester I want to Categorize Place Details so that I can categorize Place according to type* | *2* | *I5=2* | *5* |

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| ***Process-2*** | ***Provide Proper Treatment*** | ***SP*** | ***IC*** | ***IP*** |
| ***Task Description*** | *8.As a Visitor I want to assign experienced at ackers that I can provide best possible service* | *13* | *I1=20* | *1* |
|  | *1.As a Visitor I want to Request Report Creation so that I can so that it can be used for analysis of place* | *5* |
|  | *5.As a Visitor I want to Inspect place as per status report so that I can detect disease* | *2* |
|  | *11.As a Visitor I want to provide treatment so that I can Save places* | *13* | *I2=20* | *2* |
|  | *6.As a Visitor I want to detect special ties that I can alert facilitator about treatment* | *5* |
|  | *3.As a Visitor I want to Store Place Details so that I can Use for further analysis* | *2* |
|  | *2.As a Visitor I want to Find place Status Report so that I can Build a place status Report* | *8* | *I3=20* | *3* |
|  | *4.As a Visitor I want to Request facilitators permission so that I can Start treatment* | *8* |
|  | *13.As a Visitor I want to Refine Report changes so that I can easily process data* | *3* |
|  | *15.As a Visitor I want to arrange Meeting so that I can Finalize place health condition* | *1* |
|  | *7.As a Visitor I want to access treatment data source so that I can Filter previous treatments* | *8* | *I4=16* | *4* |
|  | *9.As a Visitor I want to Study Dieses so that I can provide accurate treatment* | *8* |
|  | *10.As a Visitor I want to Check previous similar cases so that I can easy to recommend best possible medicines* | *8* | *I5=16* | *5* |
|  | *14.As a Visitor I want to Renovate Place Status so that I can Identify place condition* | *8* |
|  | *12.As a Visitor I want to Routine Check up so that I can Track place Treatment is on right direction* | *5* | *I6=16* | *6* |
|  | *16.I want to Notify user so that I can Notify user about on-going treatment* | *5* |

***5. USER STORIES: GOAL 5- Generate Tourist alerts***

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| ***Objective-1*** | ***Explore The database*** | ***SP*** | ***IC*** | ***IP*** |
|  | *1.As an Database administrator I want to Log in into the Place Survival A so that I can*  *Get Information about Survival Centres* | *5* | *I1=20* | *1* |
|  | *4.As an Database administrator I want to Define place database attributes so that I can easily analyse the data* | *13* |
|  | *13.As an Database administrator I want to Enter Database Details so that I can use for further process.* | *2* |
|  | *2.As an Database administrator I want to Access Main Database so that I can Study the database.* | *8* | *I2=20* | *2* |
|  | *3.As an Database administrator I want to Identify database parameters so that I can Organize parameters data* | *5* |
|  | *14.As an Database administrator I want to Create log file*  *so that I can Maintain record changes* | *2* |
|  | *5. As an Database administrator I want to Retrieve place Data so that I can Observe main features.* | *5* |
|  | *7. As an Database administrator I want to Check place database so that I can See facility details* | *8* | *I3=19* | *3* |
|  | *8. As an Database administrator I want to Examine place Profile so that I can Crosscheck the Data* | *8* |
|  | *15. As an Database administrator I want to Do some data operations so that I can Ensure system Working* | *3* |
|  | *6. As an Database administrator I want to Get User Queries*  *so that I can solve User Queries* | *13* | *I4=18* | *4* |
|  | *9. As an Database administrator I want to Organize place Profiles so that I can Arrange data in order* | *5* |
|  | *10. As an Database administrator I want to Avail place Services so that I can Create Service File.* | *5* | *I5=18* | *5* |
|  | *11. As an Database administrator I want to Manage database security so that I can Ensure data protection.* | *13* |
|  | *12. As an Database administrator I want to Manage re sources allocation so that I can Allocate re sources to the users.* | *13* | *I6=18* | *6* |
|  | *16. As an Database administrator I want to Detect data anomaly so that I can Remove the anomaly.* | *5* |
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| ***Process-1*** | ***Fetch Nearby Centre*** | ***SP*** | ***IC*** | ***IP*** |
|  | *1.As a System Administrator I want to Retrieve A place Database so that I can*  *Collect all the information regarding A Centre* | *5* | *I1=20* | *1* |
|  | *5. As a System Administrator I want to Ensure the availability of machines so that I can Identify available treatments.* | *13* |
|  | *3.As a System Administrator I want to Request the facilitator*  *so that I can tour the Survival centre* | *2* |
|  | *2.As a System Administrator I want to Take a tour of the a place so that I can Observe the a place facilities* | *5* | *I2=20* | *2* |
|  | *4.As a System Administrator I want to Examine the A place facilities so that I can Understand the quality of the a centre* | *8* |
|  | *6.As a System Administrator I want to Search availability Of re sources so that I can Allocate the re sources.* | *5* |
|  | *16.As a System Administrator I want to Promote place Database. so that I can Use It For further actions.* | *2* |
|  | *8.As a System Administrator I want to Check A place Spacing so that I can Confirm the details* | *2* | *I3=20* | *3* |
|  | *9.As a System Administrator I want to Inspect Sanitation Process so that I can Detect any a lessness* | *18* |
|  | *7.As a System Administrator I want to Inquire About place shelter so that I can Verify the shelter existence* | *8* | *I4=18* | *4* |
|  | *11.As a System Administrator I want to Enlist Available place*  *so that I can Suggest the centre* | *5* |
|  | *12.As a System Administrator I want to Search survival place background so that I can Study the background.* | *5* |
|  | *10.As a System Administrator I want to Acquire User interests*  *so that I can Match the details* | *13* | *I5=18* | *5* |
|  | *14.As a System Administrator I want to Evaluate place past work so that I can Rank them in order.* | *5* |
|  | *13.As a System Administrator I want to Inquire Future Availability so that I can Take future appointments.* | *13* |
|  | *15.As a System Administrator I want to Communicate with user so that I can Convey survival place details.* | *5* |

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| ***Process-2*** | ***Accumulateplace Details*** | ***SP*** | ***IC*** | ***IP*** |
|  | *1.As a system admin I want to Fetch place Survival A database. so that I can get place details.* | *5* | *I1=20* | *1* |
|  | *3.As a system admin I want to Take a tour of centre*  *so that I can Observe the place facilities.* | *13* |
|  | *12.As a system admin I want to Enter all the data to database*  *so that I can Promote the database.* | *2* |
|  | *2.As a system admin I want to Verify data sources*  *so that I can Authenticate place details* | *8* | *I2=20* | *2* |
|  | *5.As a system admin I want to Enlist place facilities*  *so that I can Categorize the facilities.* | *5* |
|  | *13.As a system admin I want to Remove unnecessary data*  *so that I can Make database consistent.* | *2* |
|  | *8.As a system admin I want to Acquire Nutrition Details*  *so that I can Study the details* | *5* |
|  | *4As a system admin I want to Evaluate machine Efficiency*  *so that I can Confirm machine correctness* | *18* | *I3=20* | *3* |
|  | *14.As a system admin I want to Accommodate all the details*  *so that I can Use it For Further Process.* | *2* |
|  | *7.As a system admin I want to Search Additional facilities*  *so that I can Add facility details* | *13* | *I4=18* | *4* |
|  | *10.As a system admin I want to Inquire about emergency services so that I can Make a list of them.* | *5* |
|  | *6.As a system admin I want to Enter facility details*  *so that I can Promote the database.* | *8* | *I5=16* | *5* |
|  | *9.As a system admin I want to Investigate vaccination Process so that I can Verify from Experts* | *8* |
|  | *11.As a system admin I want to Observe tester relationships so that I can Make a note of it.* | *8* | *I6=13* | *6* |
|  | *16.As a system admin I want to Compare place work success rate so that I can Rank them in Order* | *5* |

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| ***Objective-2*** | ***Analyse tourist Report*** | ***SP*** | ***IC*** | ***IP*** |
|  | *1.As an developer I want to Fetch Place Data*  *so that I can Collect all the information regarding queries* | *8* | *I1=20* | *1* |
|  | *2.As an developer I want to Access Final Report so that I can Study the report* | *5* |
|  | *5.As an developer I want to Organise a meeting so that I can Present the data* | *5* |
|  | *7.As an developer I want to Observe treatment flow*  *so that I can Determine needed re sources* | *2* |
|  | *11.As an developer I want to Check place availability*  *so that I can Enlist available centres* | *5* | *I2=20* | *2* |
|  | *12.As an developer I want to Inquire place vacancy*  *so that I can Allocate place to the place* | *8* |
|  | *13.As an developer I want to Inform the authorities*  *so that I can Take Further Actions.* | *2* |
|  | *16.As an developer I want to Record analysed data*  *so that I can Use it in Future* | *5* |
|  | *3.As an developer I want to Study Place Report so that I can See Place Characteristics* | *8* | *I3=18* | *3* |
|  | *8.As an developer I want to Check place re sources*  *so that I can Find centres with required re sources* | *5* |
|  | *10.As an developer I want to Confirm place report study*  *so that I can Decide further actions* | *5* |
|  | *4.As an developer I want to Contact with visitor so that I can Understand the report well* | *13* | *I4=18* | *4* |
|  | *14.As an developer I want to Analyse place health report*  *so that I can Suggest survival centre* | *5* |
|  | *6.As an developer I want to Study Required treatment*  *so that I can Decide further actions* | *8* | *I5=18* | *5* |
|  | *9.As an developer I want to Study place behaviour*  *so that I can Observe behavioural changes* | *5* |
|  | *15.As an developer I want to Communicate with User*  *so that I can Get User Requirements* | *5* |

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| ***Process-1*** | ***RecommendplaceList*** | ***SP*** | ***IC*** | ***IP*** |
| ***Task Description*** | *1.As a tester I want to Access place Report*  *so that I can Study place Report.* | *5* | *I1=20* | *1* |
|  | *5.As a tester I want to Verify data in the database*  *so that I can Ensure data Authenticity.* | *13* |
|  | *13.As a tester I want to Assign parameters for comparison*  *so that I can Compare the survival centres.* | *2* |
|  | *2.As a tester I want to Get all the details of place so that I can Observe a fully the characteristics.* | *5* | *I2=20* | *2* |
|  | *3.As a tester I want to Retrieve place Status chart so that I can Study place status* | *8* |
|  | *5.As a tester I want to Fetch a place Database*  *so that I can Get all the details.* | *5* |
|  | *8.As a tester I want to Enlist All the Survival A Centres.*  *so that I can Compare their characteristics.* | *2* |
|  | *7.As a tester I want to Consider Place health issues*  *so that I can Relate to the survival centres.* | *5* | *I3=20* | *3* |
|  | *10.As a tester I want to Check place availability*  *so that I can Inform the user* | *2* |
|  | *12.As a tester I want to Authenticate place data*  *so that I can Avoid Security issues.* | *13* |
|  | *6.As a tester I want to Analyse Facility Details*  *so that I can Compare with place report.* | *8* | *I4=18* | *4* |
|  | *9.As a tester I want to Create a activity plan*  *so that I can Work on Prescribed Actions.* | *5* |
|  | *11.As a tester I want to Get place Work Environment*  *so that I can Determine the relationships among developers* | *5* |
|  | *14.As a tester I want to Define various attributes of Centres*  *so that I can Categorize the Centres* | *5* | *I5=18* | *5* |
|  | *16.As a tester I want to Create place list*  *so that I can Confirm From the Manager.* | *13* |
|  | *15.As a tester I want to Arrange manager meeting*  *so that I can Confirm place Attributes.* | *5* | *I6=10* | *6* |
|  | *17.As a tester I want to Finalize recommended list*  *so that I can Provide it to the User* | *5* |

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| ***Process-2*** | ***Obtain User Interests*** | ***SP*** | ***IC*** | ***IP*** |
| ***Task Description*** | *1.As an developer I want to acquire user interest*  *so that I can Provide Survival place List.* | *5* | *I1=20* | *1* |
|  | *3.As an developer I want to procure Facility details so that I can Show to the User* | *13* |
|  | *6.As an developer I want to Study place comfort chart*  *so that I can check available related centres.* | *2* |
|  | *2.As an developer I want to Fetch survival A place data so that I can Provide Whenever Necessary.* | *8* | *I2=20* | *2* |
|  | *5.As an developer I want to Read the user queries so that I can answer to them* | *5* |
|  | *7.As an developer I want to ask user requirements*  *so that I can Suggest a Centre* | *5* |
|  | *13.As an developer I want to promote the data*  *so that I can Submit to the database.* | *2* |
|  | *4.As an developer I want to Create Query Template*  *so that I can ask user to fill the template* | *8* | *I3=19* | *3* |
|  | *8.As an developer I want to Get place Treatment details*  *so that I can Match with survival a place facilities.* | *8* |
|  | *10.As an developer I want to Show User final recommended list so that I can Finalize the place from user* | *3* |
|  | *9.As an developer I want to analyse report data*  *so that I can Take further decisions.* | *5* | *I4=18* | *4* |
|  | *11.As an developer I want to Confirm place from user*  *so that I can Make Further Proceedings* | *8* |
|  | *15.As an developer I want to provide User place details*  *so that I can assure user will make to the centre* | *5* |
|  | *12.As an developer I want to Finalize place From authorities*  *so that I can convey the user* | *8* | *I5=16* | *5* |
|  | *16.As an developer I want to Inform as associated place about the user so that I can Go to further actions.* | *8* |
|  | *As an developer I want to Secure the data*  *so that I can avoid any conflicts.* | *13* | *I6=13* | *6* |

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# *6. USER STORIES: GOAL 6 – Create visitor’s analysis report*

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| ***Objective-1*** | ***Process Place Status*** | ***SP*** | ***IC*** | ***IP*** |
| ***Task Description*** | *7.As an Place visitor Optimize place status so that I can controlled experimentation to improve a centre* | *13* | *I1=20* | *1* |
|  | *3.As an Place visitor Extract Place Information so that I can Know whether what efforts need to be taken for further improvement* | *5* |
|  | *2.As an Place visitor Keep Place Activity so that I can Report it to User* | *2* |
|  | *4.As an Place visitor Validate Place Status so that I can Have current place status* | *8* | *I2=20* | *2* |
|  | *8.As an Place visitor Extract Place Data so that I can achieve the speed of retrieval* | *8* |
|  | *1.As an Place visitor Accumulate Place Data so that I can Keep a record of it* | *3* |
|  | *15.As an Place visitor Inform Place Status Progress so that I can assure user about places growth* | *1* |
|  | *6.As an Place visitor Ensure Data Correctness so that I can check whether the place data is correct or not* | *5* | *I3=20* | *3* |
|  | *9.As an Place visitor Display Place Progress Status so that I can assure user about place growth* | *5* |
|  | *10.As an Place visitor Process the Feedback’s Details so that I can ensure the place performance* | *5* |
|  | *16.As an Place visitor Rectify Place Needs so that I can demonstrate the results* | *5* |
|  | *11.As an Place visitor Provide Status Report so that I can ensure whether user are satisfied with tester activities* | *8* | *I4=20* | *4* |
|  | *14.As an Place visitor Create Statistical Report so that I can provide it to user* | *8* |
|  | *12.As an Place visitor Access the Status so that I can Feed it to the processes* | *3* |
|  | *5.As an Place visitor Arrange Meeting Schedules so that I can Report place activities to user* | *1* |
|  | *17.As an Place visitor Know Places Status so that I can analyse status Promote* | *8* | *I5=18* | *5* |
|  | *18.As an Place visitor Finalize Place Status Report so that I can Take further improvements* | *8* |
|  | *13.As an Place visitor Provide Detailed Guidance so that I can Obtain place status feedback* | *2* |

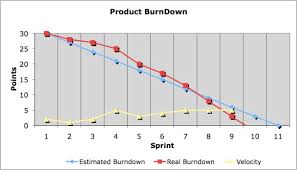
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| ***Process-1*** | ***Fetch Place Status*** | ***SP*** | ***IC*** | ***IP*** |
| ***Task Description*** | *8.As a tester I want to Know the user’s priorities so that I can decide on providing good content* | *13* | *I1=20* | *1* |
|  | *1.As a tester I want to Render Place Status so that I can Keep a track of status* | *5* |
|  | *3.As a tester I want to Extract status data source so that I can Refine place status* | *2* |
|  | *4.As a tester I want to Permit status pre-fetching so that I can process it for further changes* | *8* | *I2=20* | *2* |
|  | *6.As a tester I want to Establish pre-fetching of status details so that I can enable faster searching* | *8* |
|  | *2.As a tester I want to Accumulate Place Data so that I can extract the useful information* | *3* |
|  | *12.As a tester I want to Fix future status Promote Date* | *1* |
|  | *9.As a tester I want to Process the similar queries so that I can Show the results* | *8* | *I3=20* | *3* |
|  | *5.As a tester I want to Execute search query entered by user so that I can process it as per requirement* | *5* |
|  | *7.As a tester I want to Conserve status Promotes order so that I can Track status changes* | *5* |
|  | *13.As a tester I want to Retrieve all place status so that I can Be helpful to other users* | *2* |
|  | *14.As a tester I want to Create place status Report so that I can User can access undergone treatments* | *8* | *I4=20* | *4* |
|  | *10.As a tester I want to See place status so that I can check current status* | *5* |
|  | *11.As a tester I want to Optimize place status so that I can Know more about place growth* | *3* |
|  | *15.As a tester I want to Finalize teste r feedback so that I can Take further improvements* | *1* |
|  | *16.As a tester I want to Fetch tester feedback data so that I can verify data redundancies* | *3* |

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| ***Process-2*** | ***Notify End User*** | ***SP*** | ***IC*** | ***IP*** |
| ***Task Description*** | *5.As a Place visitor I want to Generate Auto Notify System so that I can Minimize user involvement* | *13* | *I1=20* | *1* |
|  | *1.As a Place visitor I want to Retrieve Place Status so that I can Notify status of place to user* | *5* |
|  | *10.As a Place visitor I want to Locate notification points so that I can Make user more specific* | *2* |
|  | *3.As a Place visitor I want to Choose media so that I can Send Notification via GCM,SMS or email* | *8* | *I2=20* | *2* |
|  | *2.As a Place visitor I want to Generate Notification so that I can Specify purpose of notification* | *5* |
|  | *7.As a Place visitor I want to Retrieve Treatment Details so that I can Generate Bill* | *5* |
|  | *16.As a Place visitor I want to Notify End User so that I can Make services transparently* | *2* |
|  | *6.As a Place visitor I want to Remind user via Email/SMS so that I can Guarantee that user got notification* | *8* | *I3=20* | *3* |
|  | *12.As a Place visitor I want to Eliminate irrelevant notifications so that I can ensure no one receives them* | *5* |
|  | *8.As a Place visitor I want to Notify Bill amount so that I can Reduce overhead of change at a place cash counter* | *3* |
|  | *13.As a Place visitor I want to Examine notifications so that I can ensure to notification delivery* | *3* |
|  | *9.As a Place visitor I want to Render notification so that I can ensure the platforms target* | *1* |
|  | *15.As a Place visitor I want to Notify changed deadlines so that I can Minimize direct interaction* | *8* | *I4=20* | *4* |
|  | *17.As a Place visitor I want to Store details of notification so that I can avoid repeated notifications* | *8* |
|  | *4.As a Place visitor I want to Create Efficient notification System so that I can Send notification* | *3* |
|  | *11.As a Place visitor I want to Provide a place information so that I can Identify Authentic Notification* | *1* |
|  | *14.As a Place visitor I want to Know treatment deadline so that I can Submit it in time* | *5* | *I5=5* | *5* |

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| ***Objective-2*** | ***Show Review Details*** | ***SP*** | ***IC*** | ***IP*** |
| ***Task Description*** | *10.As a tester I want to Process the feedback’s details so that I can ensure the place performance* | *13* | *I1=20* | *1* |
|  | *2.As a tester I want to Retrieve user Rating so that I can sort place a list as per ratings* | *5* |
|  | *3.As a tester I want to Extract useful review so that I can extract the user details from database* | *2* |
|  | *1.As a tester I want to Obtain User Review so that I can Identify user satisfaction* | *8* | *I2=20* | *2* |
|  | *7.As a tester I want to Extract Place Data so that I can achieve the speed of retrieval* | *5* |
|  | *12.As a tester I want to Conserve User record so that I can Find the exact interested area* | *5* |
|  | *15.As a tester I want to Create statistical Report so that I can provide it to users* | *2* |
|  | *6.As a tester I want to Permit Feedback Reminder so that I can ensure the message gets delivered* | *8* | *I3=20* | *3* |
|  | *16.As a tester I want to Inform places Progress so that I can assure user about place growth* | *5* |
|  | *19.As a tester I want to Provide Place Database so that I can convey about place performance* | *5* |
|  | *4.As a tester I want to Arrange Meeting Schedules so that I can Report places activities to users* | *1* |
|  | *13.As a tester I want to Retrieve Place Graph so that I can Inform place details to user* | *1* |
|  | *9.As a tester I want to Analyse the graph so that I can Gather the posts which are vacant and occupied* | *8* | *I4=19* | *4* |
|  | *11.As a tester I want to Provide feedback form so that I can ensure whether users are satisfied with day a activities* | *8* |
|  | *5.As a tester I want to Evoke graph statistics so that I can Gather information and make a complete graph* | *3* |
|  | *17.As a tester I want to Rectify Place Needs so that I can demonstrate the results* | *8* | *I5=19* | *5* |
|  | *18.As a tester I want to Know User Feedback so that I can analyse Feedback* | *8* |
|  | *8.As a tester I want to Display Place progress so that I can assure user about place growth* | *3* |
|  | *14.As a tester I want to Provide Detailed Guidance so that I can Obtain user feedback* | *3* | *I6=3* | *6* |

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| ***Process-1*** | ***Request User Feedback*** | ***SP*** | ***IC*** | ***IP*** |
| ***Task Description*** | *8.As a Place visitor I want to Apply prioritization technique so that I can prioritize users feedback* | *13* | *I1=20* | *1* |
|  | *2.As a Place visitor I want to Decide Channel so that I can Best to accomplish our goals* | *5* |
|  | *1.As a Place visitor I want to Define gather feedback process so that I can Understand why we are seeking feedback* | *2* |
|  | *6.As a Place visitor I want to Gather feedback so that I can Keep record of it* | *8* | *I2=20* | *2* |
|  | *4.As a Place visitor I want to Conduct customer visits so that I can Gather feedback tends to cost a lot more time and re source* | *5* |
|  | *13.As a Place visitor I want to Access place Service Feedback so that I can Feed it to the processes* | *5* |
|  | *12.As a Place visitor I want to Process Feedback Details so that I can ensure the place performance* | *2* |
|  | *9.As a Place visitor I want to Use Mo Scow so that I can Take more lean approach* | *8* | *I3=20* | *3* |
|  | *10.As a Place visitor I want to Rank Review so that I can Rank based on user growth, Satisfaction, Service, Quality etc* | *8* |
|  | *5.As a Place visitor I want to Encourage customer so that I can Submit feature request* | *3* |
|  | *3.As a Place visitor I want to In-per son meetings so that I can Get a straight answers from customer* | *1* |
|  | *14.As a Place visitor I want to Create Statistical report so that I can provide it to user* | *8* | *I4=19* | *4* |
|  | *15.As a Place visitor I want to Provide Feedback Changes so that I can Keep the system Promoted* | *8* |
|  | *11.As a Place visitor I want to Access Feedback so that I can check the user feedback* | *3* |
|  | *17.As a Place visitor I want to Know Users Feedback so that I can analyse Feedback* | *8* | *I5=18* | *5* |
|  | *7.As a Place visitor I want to Put all into one place so that I canMake it simple to reference later* | *5* |
|  | *16.As a Place visitor I want to Use Expert Details so that I can demonstrate the results* | *5* |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***Process-2*** | ***Review Survival Centre*** | ***SP*** | ***IC*** | ***IP*** |
| ***Task Description*** | *11. As a User I want to Process feedback’s details so that I can ensure the a place performance* | *13* | *I1=20* | *1* |
|  | *3.As a User I want to Extract Survival A Information so that I can Know whether what efforts need to be taken for further improvement* | *5* |
|  | *1.As a User I want to Accumulate Data so that I can Keep a record of it* | *2* |
|  | *6.As a User I want to Ensure data correctness so that I can check whether the user data is correct or not* | *8* | *I2=20* | *2* |
|  | *7.As a User I want to Permit Feedback Reminder so that I can ensure the message gets delivered* | *5* |
|  | *8.As a User I want to Extract a place Data so that I can achieve the speed of retrieval* | *5* |
|  | *15.As a User I want to Provide Detailed Guidance so that I can Obtain users feedback* | *2* |
|  | *9. As a User I want to Display A place progress so that I can assure user about a place growth* | *8* | *I3=20* | *3* |
|  | *12. As a User I want to Provide feedback form so that I can ensure whether parents are satisfied with day a activities* | *8* |
|  | *4.As a User I want to Extract useful information so that I can* | *3* |
|  | *2.As a User I want to Keep A place Activity so that I can Report it to a centre* | *1* |
|  | *16.As a User I want to Create statistical Report so that I can provide it to a centres* | *8* | *I4=20* | *4* |
|  | *19.As a User I want to Finalize Users Review so that I can Take further improvements* | *8* |
|  | *10. As a User I want to Communicate user Result so that I can display a place result to users* | *3* |
|  | *5.As a User I want to Arrange Meeting Schedules so that I can Report user activities to a centre* | *1* |
|  | *13. As a User I want to Access feedback so that I can Feed it to the processes* | *5* | *I5=13* | *5* |
|  | *14. As a User I want to Demonstrate success page so that I can ensure the validation of the entered data.* | *3* |
|  | *17.As a User I want to Inform a centres advancement so that I can assure users about a place advancement* | *3* |
|  | *18.As a User I want to Rectify users’ Needs so that I can demonstrate the results* | *2* |



**T.Y. B. Tech.**

**CS 3001: software Engineering Laboratory**

Assignment No: 8

**ASI INFORMATORY**

**System Construction**

|  |  |  |  |
| --- | --- | --- | --- |
| Project Group Information | | | |
| Roll. No. | **Gr. No.** | **Name** | **Roles** |
| 17 | **161176** | **Radhika Dusane** | **Designer** |
| 24 | **161190** | **Supriya Khedkar** | **Developer** |
| 38 | **161687** | **Dipti Pharate** | **Tester** |

**Approved By:**

**Prof.Dr.Mahesh Dube**

**Academic Year: 2017-18 Semester: II**

**Table of Contents**

|  |  |  |
| --- | --- | --- |
| **Sr. No.** | **Title** | **Page** |
| 1 | Introduction | **145** |
| 2 | Architecture Objectives | **146** |
| 3 | System Design Specification | **147** |

# INTRODUCTION

# *The software engineering community realized that software architecture is not only about structures (components and interfaces), but al so about system behavior (interaction between components, protocols). Furthermore, this community introduced an architectural design phase in the system life cycle, in which requirements should be satisfied and which should serve as a basis for detailed design activities. Researchers and engineers in software engineering have adopted the term 'architecture' as well. Nevertheless, there is no consensus about the subject; no universally-accepted definition of the term 'architecture' is agreed upon.*

# *Perry and Wolf (1992) consider a software architecture as a set of architectural elements that have a particular form. Similar to Zachman and Van Waes, they distinguish three different classes of architectural elements: processing, data, and connecting elements. Perry and Wolf consider an architecture as a necessary framework in which requirements are satisfied and which serves as a basis for the design.*

# *Garlan et al. (1995) stated that a system's architectural design is concerned with describing its decomposition into computational elements and their interactions. Design tasks at this level include organizing the system as a composition of components; developing global control structures; selecting protocols for communication, synchronization, and data access; assigning functionality to design elements; physically distributing the components; scaling the system and estimating performance; defining the expected evolutionary paths; and selecting among design alternatives.*

# *soni et al. (1995) stated that software architecture is concerned with capturing the structures of a system and the relationships among the elements both within and between structures. software architectures describe how a system is decomposed into components, how these components are interconnected, and how they communicate and interact with each other. Based on a survey on the role of architecture in the design and development of large systems within Siemens, soni et al. notice that different structures are used at different stages of the development process. Each structure describes the system from a different perspective.*

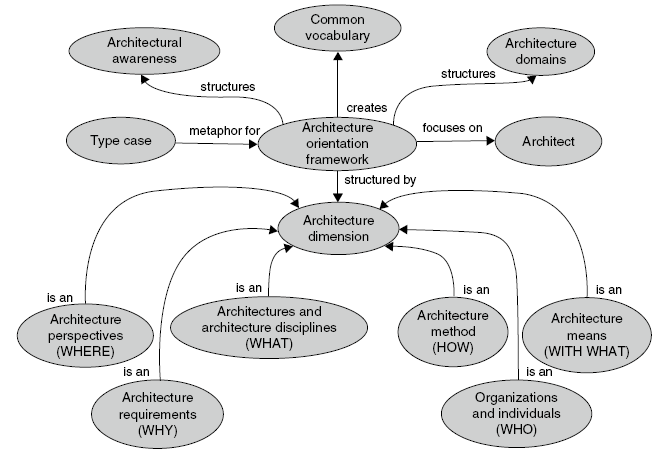
# *soni et al. argue that the four different architectures they distinguished are needed because of the growing complexity of software throughout history (see Figure 1.3). Initially, only the code architecture was required. The module and execution architecture became necessary when systems became larger and distributed. Now, software engineers would like to use communicating objects and assemblies of reused components. Therefore, a high-level structure is described in the form of a conceptual architecture. On the other hand, Zachman and especially Van Waes rea son that their various architectures are wanted as representation for each of the involved actors.*

# *Garlan and Perry (1995) found that the term 'architecture' is used in a number of ways in software engineering. Among the various uses are a) the architecture of a particular system, as in 'the architecture of this system consists of the following three components,' b) an architectural style, as in 'this system adopts a client-server architecture,' and c) the general study of architecture, as in 'the papers in that issue are about architecture.'*

# *A discussion group at Carnegie Mellon University's software Engineering Institute developed a typical definition: the structure of the components of a program/system, their interrelationships, and principles and guidelines governing their design and evolution over time. They represent a spectrum in the software architecture community about the emphasis that should be placed on architecture - its constituent pplace, the whole entity, the way it behaves once built, or the process of building it. Taken together, they reflect the various aspects of software architecture.*

# *software architecture is concerned with the design and implementation of IT systems. From the viewpoint of architectural activity, software architecture covers the steps necessary to design and implement architecture. With regard to the structural aspect of architecture, software architecture describes the structures of IT systems. From this point on, the terms “IT system” and “system” are used synonymously provided no explicit differentiation is necessary. A system is a unit that consists of integrated software and hardware building blocks and exists for the purpose of fulfilling a functional objective. To achieve this objective, it communicates with its environment and must take account of the conditions defined by the environment.*

# *http://www.home.zonnet.nl/azwegers/thesis/figures/2_2.gif*



# ARCHITECTURE OBJECTIVES

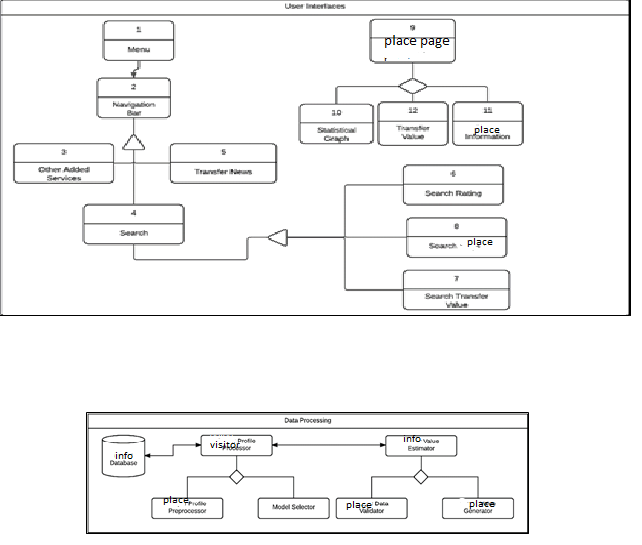
1. ***To manage complexity****: An architectural model allows one to present the essence of a complex system in a (simple) model. An architectural model supports the ability to comprehend complex systems; it presents them at a level of abstraction at which a system's high-level design can be understo ad. It supports the analysis of relationships as an aid to understand complexities in a design environment. In particular, an architecture is needed in complex, dynamic environments (Van Waes, 1991). Zachman states that the increased scope of design and levels of complexity of system implementations are forcing the use of architectural models for defining and controlling the interfaces and the integration of the system components (Zachman, 1987). Architectural models abstract away from details instead of from the essential complexity. Brooks claims that 'the complexity of software is an essential property, not an accidental one' (Brooks, 1995; p. 183). Descriptions of a software entity that abstract away its complexity often abstract away its essence.*
2. ***To serve as a set of specifications****: An architecture may be seen as a result of the design process. It is laid down in specifications, which are derived from the requirements, and from which the desired system can be built. Specifying an architecture is concerned with the specification of components, their interactions, and the constraints on these entities and their interactions. These unambiguous specifications define the scope of future development activities, and serve as a basis for further design and implementation activities.*
3. ***Means of communication****: Furthermore, an architectural model may play the role of a means of communication during a system (re-)design process. The architect can use it to visualise various aspects of the system to be designed, thus providing the various parties concerned with a basis for discussion and decision-making. By producing order in chaos, architectural models help each party to clarify its perception of the problem. Visualisation and explanation of the relevant aspects of the problem area, and the possible relationships between them, supports the various actors to focus their attention on the essential elements, thus providing a basis for discussion of the problems.*
4. ***To indicate the most vital system elements****: Furthermore, the architecture determines the nature and quality of a system. As such, an architectural model indicates the invariant or most vital system elements, which must be treated afully during system re-design. Systems evolve and are adapted to new uses, just as buildings change over time and are adapted to new uses. One frequently accompanying property of evolution is an increasing brittleness of the system, caused by violations of the architecture. Violations of the architecture frequently lead to an increase in problems in the system and contribute to an increasing resistance to change, or at least to changing gracefully.*
5. ***Means to reduce the impact of changes****: Another role of an architecture involves its contribution to the effective re-design of a system. The architecture should reduce the impact of changes to the lower component levels, and to as few components as possible. Both for shop floor control systems and for products, it is advantageous to use as many pplace of the existing system or product design as possible. In a re-engineering trajectory, an architectural model of the system allows one to pinpoint and discuss the areas requiring major change, and to integrate the new specifications into the existing model. Furthermore, architectural change is not so much determined by the system components, as well by the interfaces between these components; the ease with which components can be modified, replaced, or with which the system can be extended by new components is dependent on the extent to which the interfaces of the new components match those of the old ones.*
6. ***Means to gain strategic benefits****: Finally,(product) architecture may have certain strategic importance for a company. The development of a new product brings together a wide range of technologies. Only a few of these technologies contribute to ultimate competitive advantage. Successful companies do not compete on (and even give away) the enabling technologies on which their core utility is based. By the architectural design of functions that can be filled in by cheap, standard components, companies profit from the strong competition in the markets for these components, and are free to focus on their true sources of competitive value. In addition, a company might extend the value of its product by publishing the product's interfaces to the outside world. Other enterprises might use this product as an indispensable part for their own products*

# SYSTEM DESIGN SPECIFICATION

*A modular architecture may naturally result in a layered architecture; modules are assigned to specific layers. Layers reflect design decisions based on allowable relations and interfacing constraints. The layers in an architecture represent allowable interfaces among modules. Modules within a layer can communicate with each other. Modules in different layers can communicate with each other only if their respective layers are adjacent ( soni et al., 1995). A layer builds on its underlying layer, which at its turn builds on its underlying layer as well. Consequently, a layer explicitly uses the functionality of its underlying layer, and implicitly uses the functionality of all layers underneath its underlying layer.*

*Layers are used mainly to solve mapping problems. The mapping task is decomposed in layers: each layer performs a specific part of the mapping. In this sense, the division in layers is part of an architecture. The advantage of layers is the flexibility: changes can be made inside a layer without affecting other layers. A disadvantage of a layered architecture is its rigidity: new layers are hard to be shoved in between existing layers, since this requires a (major) change of interfaces. Examples of the application of layers in mappings are:*

1. *the targets of an enterprise must be mapped on its physical processes; therefore, a strategical, tactical, and operational layer are distinguished;*
2. *data from a database must be mapped on computer screens; therefore, an internal, conceptual, and external layer are distinguished.*



Display solution To User

Notify User About solution

Retrieve solution

Process Data Into User Profile

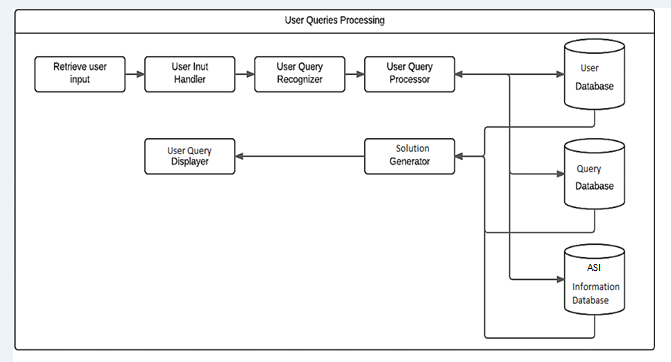
Transfer Data For solution

Query Engine

Input User Information

Input Query

User Interface



|  |  |
| --- | --- |
| *Layer-1* | *User Interfaces* |
| *Purpose* | *This the layer that the users will use to interact with the system.* |
| *Related Components* | *User Interfaces.* |
| *software Interfaces* | *Layer 3 and Layer 4 Interfaces* |
| *Composition Style* | ***Generalization*** |
| *Communication Pattern* | ***Vertical*** |
| *Implementation Steps* | *1. Create UI for accessing information of archaeological places.*  *2. To create Terms and Condition report.*  *3. Collect data of archaeological places for building UI.*  *4. Build archaeological profile.*  *5. sort places according to their ranks.*  *6. Store archaeological information according categorization.*  *7. Prevent Useful data from getting Vanished.*  *8. Identify l time span.*  *10. Process the data and save the query* |

|  |  |
| --- | --- |
| *Layer-2* | *Data Processing* |
| *Purpose* | *This Layer processes the data in database and categorize places state wise.*  *This Layer processes* |
| *Related Components* | *Goal 3 and Goal 6 components* |
| *software Interfaces* | *Layer 1 and Layer 4 Interfaces* |
| *Composition Style* | ***Aggregation*** |
| *Communication Pattern* | ***Horizontal*** |
| *Implementation Steps* | *1. Process data stored in database.*  *2. decide criteria for categorization.*  *3. Categorize places according to the state.*  *4. Easy to access data.*  *5. Validate data .*  *6. Store validated data to database.*  *7. Prevent Useful data from getting Vanished.*  *8. Identify time span.*  *9. Process the data and save the query*  *10. Process the data and save the query.* |

|  |  |
| --- | --- |
| *Layer-3* | *User Queries Processing* |
| *Purpose* | *The User Query Processing is done in this layer of components.* |
| *Related Components* | *Goal 4 and Goal 5 components* |
| *software Interfaces* | *Layer 1 and Layer 4 Interfaces* |
| *Composition Style* | ***Composition*** |
| *Communication Pattern* | ***Horizontal*** |
| *Implementation Steps* | *1. Extract and Process queries about difficulties occurred in data processing.*  *2. Display visitors information.*  *3. Accept Queries from visitors about issues.*  *4. Process Queries and save result.*  *5. Take feedback from Visitor about the system.*  *6. Input detail of visitors, according to that queries are fired.* |

|  |  |
| --- | --- |
| *Layer-4* | *Data Access* |
| *Purpose* | *Access of data about Archaeological places.* |
| *Related Components* | *Goal 1 and Goal 2 components* |
| *software Interfaces* | *Layer 3 and Layer 4 Interfaces* |
| *Composition Style* | ***Aggregation*** |
| *Communication Pattern* | ***Vertical*** |
| *Implementation Steps* | *1. Insert Information in Databases.*  *2. Process the information and Filter it wherever possible.*  *3. Manager can only access the database.*  *4. Identify the visitors for credit point purpose.*  *5. Identify the most likely places.* |

|  |  |
| --- | --- |
| *Layer-5* | *Output* |
| *Purpose* | *Describes output the system will generate* |
| *Related Components* | *Goal 1 and Goal 2 components* |
| *software Interfaces* | *Layer 3 and Layer 4 Interfaces* |
| *Composition Style* | ***Aggregation*** |
| *Communication Pattern* | ***Vertical*** |
| *Implementation Steps* | *1. Insert Information in Databases.*  *2. Process the information and Filter it wherever possible.*  *3. . Manager is given certain credentials.*  *4. Access the information for reference.*  *5. Access the information for reference.*  *.* |

# COMPONENT SPECIFICATION: GOAL-1

|  |  |
| --- | --- |
| ***Component Name*** | *Retain Archaeological Data* |
| ***Audience*** | *Internal Stakeholders* |
| ***Responsibilities*** | *Building Archaeological Data, Analyzing Archaeological Data, Validating Data.* |
| ***Processing*** | * *Collect Archaeological places information.* * *Collect Missing Parameter.* * *Verify If Place is already not included.* * *Create Facility for The Client to get easily informtion.*  1. *Involve New Parameters If Required.* 2. *Collect Extra Information like ratings and all.* 3. *Input New Archaeological data.* 4. *sort The places according To Their category.* 5. *Segregate all places.* 6. *Set-up This Database on the Machine.* |
| ***Reference*** | *Archeological data* |
| ***Constraints*** | *Unrecorded Archeological data* |
| ***Composition*** | *Sub - System 1, Module 1* |
| ***Re sources*** | *Database 1, 4 tables* |
| ***Interactions*** | *Name the other components with which the component interacts* |
| ***Interface/Tasks*** | *Cleans Data, checks for abnormality.* |

## Procedure Definition Language (Pseudo-code):

INTERFACE: Archaeological Data Builder interfaces

DO:

mysql\_connect(DATABASE);

connect\_to(NET)

INITIALIZE XAMPP SERVER FOR scraping

BEGIN

Find Data sources

FIND GOOD SITES

RUN MAIN.php

data=FETCH DATA()

Parse to XML OR J SON

SEND phpdata to our System

GET XML OR J SON in our System

if(data==null):

restart scraping

else:

unparsed()

if(data is in range):

Group all data into category

Identify appropriate DBMS

Insert extracted data into re source database

else:

Group all data into category

Identify appropriate DBMS

Insert extracted data into re source database

Clean Archaeological Data Abnormalities

Make backup of newly added data

Segregate Database

IF( DATA := CALL DATA\_AQUIRER();) THEN

CALL DATA\_ANALYSER(DATA);

ELSE

OUTPUT(DATA SOURCE UNAVAILABLE)

RETURN -1;

END

# 2.COMPONENT SPECIFICATION: GOAL-1 OBJECTIVE-1

|  |  |
| --- | --- |
| ***Component Name*** | *Retain Archaeological Data* |
| ***Audience*** | *Internal Stakeholders* |
| ***Responsibilities*** | *State computational abilities here.* |
| ***Processing*** | * *Filter Data sources* * *Collect Archaeological Data Data* * *Analyse Archaeological Data* * *Ascertain Data Correctness* * *Determine Data Abnormalities* * *Remove Data Abnormalities* * *Clean Data* * *Use Compatible DBMS* * *Insert Archaeological Data into DBMS* * *Create Cloud Backup of Database* |
| ***Reference*** | *Data Acquirer* |
| ***Constraints*** | *RDBMS* |
| ***Composition*** | *Sub - System 1, Module 1* |
| ***Re sources*** | *Archaeological Database* |
| ***Interactions*** | *Components: 1* |
| ***Interface/Tasks*** | *Acquire Data, Remove Data Abnormalities* |

## Procedure Definition Language (Pseudo-code):

INTERFACE: Archaeological Data Acquire interface

DO

Find Data sources

foreach(TABLE table in database):

if table is desired:

fetch the table

BEGIN

GET DATA SCOURCES;

import database libraries

construct prepared Statement

insert query in the statement

run that query

if(query\_runned)

Insert extracted data into re source database

print done

else

print do this process again

IF(DATA SOURCES AVAILABLE) THEN

CHECK DATA DIMENSIONS;

FILTER DATA

FETCH DATA INTO TEMPORARY DATASET;

CREATE DBMS INSTANCE;

INSERT DATA FROM TEMPORARY DATASET INTO DBMS INSTANCE;

RETURN DATA;

ELSE

RETURN NULL;

END

# COMPONENT SPECIFICATION: GOAL-1 OBJECTIVE-2

|  |  |
| --- | --- |
| ***Component Name*** | *Retain Archaeological Data* |
| ***Audience*** | *Stakeholders* |
| ***Responsibilities*** | *State computational abilities here.* |
| ***Processing*** | *1. Determine Data sources*  *2. Filter Data sources*  *3. Collect Archaeological Data*  *4. Analyse Archaeological Data*  *5. Filter Appropriate and important Data*  *6. Segregate Place Data*  *7. Determine Data Correctness*  *8. Remove Incorrect Data*  *9. Clean Data Abnormality*  *10.Insert Extracted Data into Database* |
| ***Reference*** | *Data Analyser* |
| ***Constraints*** | *Processing Speed* |
| ***Composition*** | *Sub - System 1, Module 2* |
| ***Re sources*** | *Archaeological Database* |
| ***Interactions*** | *Components: 1* |
| ***Interface/Tasks*** | *Filter Relevant Data, Ascertain Correctness of Data* |

## Procedure Definition Language (Pseudo-code):

INTERFACE RAW\_DATA\_ANALYSER

DO

Ascertain data correctness

Clean Place Data Abnormalities

BEGIN

FOR EACH COLUMN IN DATA LOOP

IF(VALUES OF COLUMN NOT IN EXPECTED RANGE) THEN

REPORT DATA ABNORMALITY;

CLEAN ABNORMAL DATA;

import database libraries

construct prepared Statement

insert query in the statement

run that query

if(query\_runned)

Insert extracted data into re source database

print done

else

print do this process again

END LOOP;

END

# COMPONENT SPECIFICATION: GOAL-2

|  |  |
| --- | --- |
| ***Component Name*** | *Rank Archaeological Places* |
| ***Audience*** | *Stakeholders* |
| ***Responsibilities*** | *Build Place Classes* |
| ***Processing*** | 1. *Archaeological Terminology* 2. *Finalize Classification Classes* 3. *Use ranking to Improve Value Prediction* 4. *Use ranking to Improve Searching* 5. *Remodel Database* 6. *Analyse Datasets* 7. *Consider Database Limitations* 8. *Run Test Classifications* 9. *Re solve Classification Overlaps* 10. *Maintain Fluidity in Classification* |
| ***Reference*** | *Archaeological Classifier* |
| ***Constraints*** | *MySQL Database* |
| ***Composition*** | *Sub - System 1, Module 3* |
| ***Re sources*** | *Archaeological Database* |
| ***Interactions*** | *Components: 5 to 13* |
| ***Interface/Tasks*** | *Update Database, Perform Classification of Places* |

## Procedure Definition Language (Pseudo-code):

INTERFACE: Rank Archaeological Places

DO

Build Archaeological Classes

BEGIN

import database libraries

connect to db

If(connencted)

foreach(TABLE table in database):

if table is desired:

fetch tht table

WHILE (All data is not read)

{

PlacePosition = ExtractPlacePositionFromFile()

PlaceAbilities= ExtractPlaceAbilitiesFromFile()

if(new Category found)

MAKE new table for new categories()

else

Keep same Database

Verify(PlacePosition)

Verify(PlaceAbilites)

Group\_dataset(PlacePosition)

Group\_dataset(PlaceAbilities)

Update\_Database\_Table()

}

Else

Print Connection Error

if(user ask to connect again)

connect again

END IF

END

# COMPONENT SPECIFICATION: GOAL-2 OBJECTIVE-1

|  |  |
| --- | --- |
| ***Component Name*** | *Rank Archaeological Places* |
| ***Audience*** | *Stakeholders* |
| ***Responsibilities*** | *State computational abilities here.* |
| ***Processing*** | *1. Acquire place Data*  *2. Analyse Placer Data*  *3. Verify Data*  *4. Store Place information into Database*  *5. Extract Place data*  *6. Extract place position*  *7. Classify place according to position*  *8. Extract Important Place Attributes*  *9. Classify Place According to those attributes*  *10. Display Place information* |
| ***Reference*** | *ExtractPlacePositionFromFile* |
| ***Constraints*** | *MySQL Database* |
| ***Composition*** | *Sub - System 1, Module 3* |
| ***Re sources*** | *Place Database* |
| ***Interactions*** | *Components: 1 to 18* |
| ***Interface/Tasks*** | *Update Database, Perform Classification of Places* |

## Procedure Definition Language (Pseudo-code):

INTERFACE: ExtractPlacePositionFromFile(Place\_Name)

DO

Extract PlaceInformation

BEGIN

import database libraries

connect to db

If(connencted)

foreach(TABLE table in database):

if table is desired:

fetch the table

WHILE (Database.PName == Place\_Name) LOOP

Name=ExtractName()

Position=ExtractPosition()

Ranking=ExtractRanking()

LINKS=ExtractLINKS()

Do all data validation

encrypt in XML or J SON

Return Place

END LOOP

OUTPUT (“PLACE NOT FOUND”)

END

# COMPONENT SPECIFICATION: GOAL-2 OBJECTIVE-2

|  |  |
| --- | --- |
| ***Component Name*** | *Rank Archaeological Places* |
| ***Audience*** | *Internal Stakeholders* |
| ***Responsibilities*** | *State computational abilities here.* |
| ***Processing*** | *1. Acquire place Data*  *2. Analyse Place Data*  *3. Remove Abnormalities from Data*  *4. Store Place information into Database*  *5. Extract Place data*  *6. Filter Place Data according to Attributes*  *7. Group Places according to attributes*  *8. Check for incorrect Data within the groups*  *9. Verify the Place groups*  *10. Display the groups when necessary* |
| ***Reference*** | *ExtractPlaceAbilitiesFromFile* |
| ***Constraints*** | *MySQL Database* |
| ***Composition*** | *Sub - System 1, Module 3* |
| ***Re sources*** | *Place Database* |
| ***Interactions*** | *Components: 10 to 18* |
| ***Interface/Tasks*** | *Update Database, Perform Classification of Places* |

## Procedure Definition Language (Pseudo-code):

INTERFACE: ExtractPlaceAbilitiesFromFile(Place\_Name)

DO

Extract Place Information

BEGIN

Function

Open dataset

Connect to Database

WHILE (Database.PName == Place\_Name) LOOP

Name=ExtractName()

BasicDetails=ExtractDetails()

Skills=ExtractSkill()

Abilities=ExtractAbilities()

ADD THIS PLACE IN GROUP

PRINT NEW GROUP DETAILS

Return Place

END LOOP

END

# COMPONENT SPECIFICATION: GOAL-3

|  |  |
| --- | --- |
| ***Component Name*** | ***Categorize Places*** |
| ***Audience*** | *External Stakeholders* |
| ***Responsibilities*** | *Process place Profile Requests, Obtain and Populate Profiles* |
| ***Processing*** | 1. *Pre-Process Places Data* 2. *Train Statistical Model* 3. *Generate Places Features* 4. *Test Statistical Model* 5. *Save Trained Model* 6. *Optimize Choices* 7. *Choose Statistical Model* 8. *Tune statistical model hyper-parameters* 9. *As sociate Place Profiles* 10. *Probe Statistical Models* |
| ***Reference*** | ***Place Profile Proces sor*** |
| ***Constraints*** | *Environment Issues* |
| ***Composition*** | *Sub-system 2, Module 1* |
| ***Re sources*** | *Place Database* |
| ***Interactions*** | *Components: 1 to 10* |
| ***Interface/Tasks*** | *Check incorrect scaling, scale place profiles* |

## Procedure Definition Language (Pseudo-code):

INTERFACE: PLACE\_PROFILE\_PROCES SOR

DO

if(Place\_Details==NOT SCALED)

SCALE PLACE PROFILES

Normalise data

else

Normalise data

BEGIN

for(Statistical Model in Library):

Check if its acceptable

Choose Statistical Model

if(Model is good)

Optimise Choices

After few epoch

Tune statistical model hyper-parameters

As sociate Place Profiles and model

PLACE\_DATA\_PREPROCES SOR();

TRAIN\_DATA,TEST\_DATA := TRAIN\_TEST\_SPLIT(PLACE DATA);

MODEL1=MODEL\_SELECTOR();

END

# COMPONENT SPECIFICATION: GOAL-3 OBJECTIVE-1

|  |  |
| --- | --- |
| ***Component Name*** | *Categorize Places* |
| ***Audience*** | *External Stakeholders* |
| ***Responsibilities*** | *Process Place Profile Requests, Obtain and Populate Profiles* |
| ***Processing*** | 1. *Access Place Data* 2. *Remove Abnormalities from Data* 3. *Generate Place Attributes* 4. *Group Place Attributes* 5. *Create Place Profiles* 6. *Insert Data into Profiles* 7. *As sociate Place profiles* 8. *Add Place Features* 9. *Demonstrate Important Place information* 10. *Generate Place Features* |
| ***Reference*** | *Procedure Name* |
| ***Constraints*** | *Environment Issues* |
| ***Composition*** | *Sub-system 2, Module 1* |
| ***Re sources*** | *Place Database* |
| ***Interactions*** | *Components: 1 to 18* |
| ***Interface/Tasks*** | *Choose Statistical Model  , Optimise Choices* |

## Procedure Definition Language (Pseudo-code):

INTERFACE: PLACE\_PROFILE\_PREPROCES SOR

DO

CHECK INCORRECT SCALING

SCALE PLACE PROFILES

BEGIN:

import database libraries

connect to db

If(connencted)

foreach(TABLE table in database):

if table is desired:

fetch tht table

IF(DATA IS NOT SCALED) THEN

BRING DATA TO SAME SCALE

FEED SCALED DATA TO DATABASE INSTANCE

RETURN;

END

# COMPONENT SPECIFICATION: GOAL-3 OBJECTIVE-2

|  |  |
| --- | --- |
| ***Component Name*** | *Categorize Places* |
| ***Audience*** | *External Stakeholders* |
| ***Responsibilities*** | *Process Place Profile Requests, Obtain and Populate Profiles* |
| ***Processing*** | 1. *Pre-process Place Data* 2. *As sociate Place Profiles* 3. *Generate Place Features* 4. *Probe Statistical Models* 5. *Choose Statistical model* 6. *Train Statistical Model* 7. *Test Statistical Model* 8. *Save Trained and Tested Model* 9. *Decide Statistical Model Parameters* 10. *Optimize Choices* |
| ***Reference*** | *MODEL\_SELECTOR* |
| ***Constraints*** | *Environment Issues* |
| ***Composition*** | *Sub-system 2, Module 2* |
| ***Re sources*** | *Place Database* |
| ***Interactions*** | *Components: 1 to 18* |
| ***Interface/Tasks*** | *Tune statistical model hyper-parameters, As sociate Place Profiles and model* |

## Procedure Definition Language (Pseudo-code):

INTERFACE: MODEL\_SELECTOR  
DO  
  Probe Statistical Models  
  Choose Statistical Model  
  Optimise Choices  
  Tune statistical model hyper-parameters  
  As sociate Place Profiles and model  
BEGIN  
  LOAD SELECTED MODELS;  
  FOR I IN SELECTED MODELS LOOP:  
    TRAIN I  
    RESULTS[I] := I.MAKE\_PREDICTIONS(TEST\_DATA);  
  END LOOP;  
  OPTIMAL\_MODEL := DECIDE\_OPTIMAL\_MODEL(RESULTS);  
  TUNED\_OPTIMAL\_MODEL = TUNE(OPTIMAL\_MODEL);  
  RETURN TUNED\_OPTIMAL\_MODEL;  
END

# COMPONENT SPECIFICATION: GOAL-4

|  |  |
| --- | --- |
| ***Component Name*** | *Process visitor’s queries* |
| ***Audience*** | *Stakeholders* |
| ***Responsibilities*** | *Process user queries* |
| ***Processing*** | 1. *Filter Relevant Data from Database* 2. *Make Data Structure to fit Data* 3. *Normalize Data Structure According to Model* 4. *Predict Value using Model* 5. *Scale Value Accordingly* 6. *Append Value in Database* 7. *Form Filling by End User* 8. *Validate place Information* 9. *Determine Data Abnormality* 10. *Append Place Data* |
| ***Reference*** | *Procedure Name* |
| ***Constraints*** | *Environment Issues* |
| ***Composition*** | *Sub-system: 2 , Module* |
| ***Re sources*** | *Place Database* |
| ***Interactions*** | *Components: 1 to 18* |
| ***Interface/Tasks*** | *Get User Queries, Get User Input* |

## Procedure Definition Language (Pseudo-code):

INTERFACE:USER\_QUERY\_PROCES SOR

DO

GET USER QUERIES

GET USER INPUT

BEGIN

BEGIN

CHOOSE MODEL

SET HYPERPARAMETER

FIND HIGHEST R SQUARE VALUE

DO DIMENSIONAL REDUCTIONALITY

KEEP PCA HIGHEST

IF(QUERY) THEN

USER\_QUERY\_RECOGNIZER(USER\_QUERY);

ELSE

USER\_INPUT\_HANDLER(USER\_INPUT);

END LOOP;

END

# COMPONENT SPECIFICATION: GOAL-4 OBJECTIVE-1

|  |  |
| --- | --- |
| ***Component Name*** | *Process visitor’s queries* |
| ***Audience*** | *Stakeholders* |
| ***Responsibilities*** | *Get user queries* |
| ***Processing*** | *1. Access Database*  *2. Retrieve User Input*  *3. Analyse User Input*  *4. Convert Input to Query*  *5. Recognize User Query*  *6. Enter into Database*  *7. Execute Query*  *8. Retrieve Data After Execution*  *9. Display Data Requested*  *10. Update Database if necessary* |
| ***Reference*** | *Procedure Name* |
| ***Constraints*** | *Environment Issues* |
| ***Composition*** | *Sub-system: 2 , Module: 2* |
| ***Re sources*** | *Place Database* |
| ***Interactions*** | *Components: 1 to 18* |
| ***Interface/Tasks*** | *Get User Queries, Process User Queries And Generate Predictions* |

## Procedure Definition Language (Pseudo-code):

INTERFACE USER\_QUERIES\_RECOGNIZER

DO

GET USER QUERIES

GENERATE STATS

BEGIN

KEEP NEW DATA

FIT THE DATA IN MODEL

PREDICT VALUE

PLACE\_DATA = FETCH\_PLACE\_DATA(USER\_QUERY);

LOAD MODEL;

PREDICTION = MODEL.PREDICT(PLACE\_DATA);

OUTPUT(PLACE\_DATA);

OUTPUT(‘PREDICTED VALUE:’);

OUTPUT(PREDICTION);

END

# COMPONENT SPECIFICATION: GOAL-4 OBJECTIVE-2

|  |  |
| --- | --- |
| ***Component Name*** | *Process visitor’s queries* |
| ***Audience*** | *Stakeholders* |
| ***Responsibilities*** | *Get user input* |
| ***Processing*** | 1. *Retrieve User Input Data* 2. *Create form for user* 3. *Retrieve Data from the Form* 4. *Analyse User Input Data* 5. *Take Certain Action on User Input* 6. *Access Database* 7. *Update Dataset* 8. *Notify User* 9. *Fix irregular output* 10. *Append Input* |
| ***Reference*** | *USER\_INPUT\_HANDLER* |
| ***Constraints*** | *Environment Issues* |
| ***Composition*** | *Sub-system: 2 , Module: 2* |
| ***Re sources*** | *Place Database* |
| ***Interactions*** | *Components: 1 to 18* |
| ***Interface/Tasks*** | *Get User Input, Process User Input And Append To Database* |

## Procedure Definition Language (Pseudo-code):

INTERFACE USER\_INPUT\_HANDLER  
DO  
GET USER INPUT  
PROCESS USER INPUT AND APPEND TO DATABASE  
BEGIN  
FOR USER\_INPUT IN USER\_INPUTS LOOP  
    IF USER\_INPUT HAS MISSING VALUES THEN  
      OUTPUT(‘MISSING DATA WARNING’);  
      RETURN;  
    END IF;  
  IF USER\_INPUT HAS ABNORMALITIES THEN  
      OUTPUT(‘WARNING’);  
      FIX ABNORMALITIES;  
  END IF;  
END LOOP;  
APPEND USER\_INPUTS TO USER\_INPUTS DATABASE;  
END

# COMPONENT SPECIFICATION: GOAL-5

|  |  |
| --- | --- |
| ***Component Name*** | *Generate Tourist Alert* |
| ***Audience*** | *Tourists* |
| ***Responsibilities*** | *To alert the tourist.* |
| ***Processing*** | 1. *Locate Tourist place in Database* 2. *Retrieve visiting place details* 3. *Showcase Important Information* 4. *Demonstrate the features* 5. *Contract place Details* 6. *Display weather related information* 7. *Compare current information with ideal informattion* 8. *Demonstrate compared information to tourist* 9. *Generate alert if any dangerous situation* 10. *Suggest other related places* |
| ***Reference*** | *Procedure Name* |
| ***Constraints*** | *Environment Issues* |
| ***Composition*** | *Sub-system: 2 , Module: 2* |
| ***Re sources*** | *System Database* |
| ***Interactions*** | *Components: 1 to 18* |
| ***Interface/Tasks*** | *None* |

## Procedure Definition Language (Pseudo-code):

INTERFACE PLAYER\_STATISTICS\_DEMONSTRATOR:  
DO    
BEGIN  
  FETCH INPUT PLACE\_ID/PLACE\_NAME;  
  CONNECT TO DATABASE;  
  IF(PLACE EXISTS IN DATABASE) THEN  
    STATISTICS=PLACE\_STATISTICS\_GENERATOR();  
    DISPLAY\_PLACE\_STATISTICS(STATISTICS);  
    RETURN;  
  ELSE  
    RETURN("PLACE NOT FOUND");  
  END IF;  
END

# COMPONENT SPECIFICATION: GOAL-5 OBJECTIVE-1

|  |  |
| --- | --- |
| ***Component Name*** | ***Place Statistics Generator*** |
| ***Audience*** | *Stakeholders* |
| ***Responsibilities*** | *Fetch required statistics from database for player* |
| ***Processing*** | *1. Access Database*  *2. Locate Place in Database*  *3. Search Place Data*  *4. Retrieve Place Statistics*  *5. Show Important Information On Place*  *6. Demonstrate Place performance*  *7.Demonstrate the features*  *8.Contract place Details*  *9.Display weather related information*  *10.Compare current information with ideal informattion* |
| ***Reference*** | *Procedure Name* |
| ***Constraints*** | *Environment Issues* |
| ***Composition*** | *Sub-system: 2 , Module: 2* |
| ***Re sources*** | *Place Database* |
| ***Interactions*** | *Components: 1 to 18* |
| ***Interface/Tasks*** | *None* |

## Procedure Definition Language (Pseudo-code):

INTERFACE PLACE\_STATISTICS\_GENERATOR  
DO  
  IMPORT DATABASE LIBRARIES  
BEGIN  
  CONNECT TO DATABASE;  
  FETCH PLACE DATA;  
  FETCH SELECTED STATISTICS;  
  FETCH REQUIRED STATISTICS FROM DATABASE FOR PLACE;  
  RETURN STATISTICS;  
END

# COMPONENT SPECIFICATION: GOAL-5 OBJECTIVE-2

|  |  |
| --- | --- |
| ***Component Name*** | ***Place Statistics Displayer*** |
| ***Audience*** | *Stakeholders* |
| ***Responsibilities*** | *Generate HTML/JS code for graphs* |
| ***Processing*** | *1. Access Database*  *2. Locate Place in Database*  *3. Retrieve Place Statistics*  *4. Show Important Information On Place*  *5. Demonstrate Place weather related information*  *6. Display Place Rankings*  *7. Display Estimate Value*  *8. Demonstrate value compari sons*  *9. Show Graphs Demonstrating place Details*  *10. Recommend Other places* |
| ***Reference*** | *Procedure Name* |
| ***Constraints*** | *Environment Issues* |
| ***Composition*** | *Sub-system: 2 , Module: 2* |
| ***Re sources*** | *Player Database* |
| ***Interactions*** | *Components: 1 to 18* |
| ***Interface/Tasks*** | *None* |

## Procedure Definition Language (Pseudo-code):

INTERFACE DISPLAYER\_PLAYER\_STATISTICS  
DO  
  
BEGIN  
  CONNECT TO DATABASE;  
  GET STATISTICS;  
  DETERMINE GRAPHS TO BE DISPLAYED;  
  GENERATE HTML/JS CODE FOR GRAPHS;  
  DISPLAY GRAPHS;  
  RETURN;  
END

# COMPONENT SPECIFICATION: GOAL-6

|  |  |
| --- | --- |
| ***Component Name*** | ***Create Visitors Analysis Report*** |
| ***Audience*** | *Visitor.* |
| ***Responsibilities*** | *To create visitor’s analysis report.* |
| ***Processing*** | *1.Create a UI*  *2.Validate visitor’s information*  *3. Validate visitor’s account*  *4. Reject the account ,if it is fake*  *5. Create database*  *6. Find number of visitors in the record*  *7. sort them according to the visited place*  *8. Take visitor’s review about the particular place*  *9. Confirm whether mandatory information has been filled*  *10. Useful to improve the system* |
| ***Reference*** | *Procedure Name* |
| ***Constraints*** | *Environment Issues* |
| ***Composition*** | *Sub-system: 3 , Module: 1* |
| ***Re sources*** | *Visitor Database* |
| ***Interactions*** | *Components: 1 to 18* |
| ***Interface/Tasks*** | *None* |

## Procedure Definition Language (Pseudo-code):

INTERFACE: - archaeological Value Estimator

DO: Estimate archaeological Values

BEGIN

if(CONNECT(DATABASE))

foreach(Entry : database)

Archaeology=archaeological Validator(Entry)

Data=Unwrap\_XML(P)

Html\_Code=Archaeology\_Showcaser(Data)

GenerateHTML(Html\_Code)

Save this Html

else

Show ERROR

END

# COMPONENT SPECIFICATION: GOAL-6 OBJECTIVE-1

|  |  |
| --- | --- |
| ***Component Name*** | ***Visitor Data Validator*** |
| ***Audience*** | *Stakeholders* |
| ***Responsibilities*** | *Fetch data from all tables* |
| ***Processing*** | *1. Check visitor Data*  *2. Fetch visitor Data*  *3. Feed data to the model*  *4. Generate predictive Value*  *5. Get predictive Value from Model*  *6. Display calculated value*  *7. Process and Transmit to Client*  *8. Update visitor’s Data*  *9. Store visitor’s ta*  *10. Display important data features* |
| ***Reference*** | *Procedure Name* |
| ***Constraints*** | *Environment Issues* |
| ***Composition*** | *Sub-system: 3 , Module: 1* |
| ***Re sources*** | *Player Database* |
| ***Interactions*** | *Components: 1 to 18* |
| ***Interface/Tasks*** | *None* |

## Procedure Definition Language (Pseudo-code):

INTERFACE: - Visitor Validator

DO

Go to given index in database

Fetch data from all tables

BEGIN

Check all data acquired is right

ADD Details in an Visitor Object

Make Object Immutable

Parse the Object using XML

END

# COMPONENT SPECIFICATION: GOAL-6 OBJECTIVE-2

|  |  |
| --- | --- |
| ***Component Name*** | ***Predicted Value Generator*** |
| ***Audience*** | *Stakeholders* |
| ***Responsibilities*** | *Make Graphs* |
| ***Processing*** | *1. Check visitor’s Data*  *2. Fetch visitor’s Data*  *3. Feed data to the model*  *4. Generate predictive Value*  *5. Get predictive Value from Model*  *6. Display calculated value*  *7. Process and Transmit to Client*  *8. Update Player Data*  *9. Store Player Data*  *10. Display important data features* |
| ***Reference*** | *Procedure Name* |
| ***Constraints*** | *Environment Issues* |
| ***Composition*** | *Sub-system: 3 , Module: 1* |
| ***Re sources*** | *Visitor’s Database* |
| ***Interactions*** | *Components: 1 to 18* |
| ***Interface/Tasks*** | *None* |

## Procedure Definition Language (Pseudo-code):

INTERFACE: - Visitor Showcaser

DO

Format the table

Show Basic Details Tab

Show model of player

Make Graphs

Show Contract Details

Show Predicted Price

Show similar players

BEGIN

If(table\_formated())

If(data\_available())

Show output();

Else

Show Error;

END

**T.Y. B. Tech.**

**CS 3001: software Engineering Laboratory**

Assignment No: 9

**ASI Informatory**

**System Review and Acceptance**

***Version 1.0***

|  |  |  |  |
| --- | --- | --- | --- |
| Project Group Information | | | |
| Roll. No. | **Gr. No.** | **Name** | **Roles** |
| 16 | **161176** | **Radhika Dusane** | **Designer** |
| 24 | **161190** | **Supriya Khedkar** | **Developer** |
| 38 | **161687** | **Dipti Pharate** | **Tester** |

**Approved By: Dr M. R. Dube**

**Academic Year: 2018-19 Semester: II**

**Table of Contents**

|  |  |  |
| --- | --- | --- |
| **Sr. No.** | **Title** | **Page** |
| 1 | Introduction | **170** |
| 2 | Review Types | **170** |
| 3 | Verification Summary | **172** |
| 4 | Verification Matrix | **173** |

# INTRODUCTION

*At the time of the scheduled peer review, ensure proper representation and preparation by the reviewers. Provide clarifications on the work products. Present comments and listen to the comments of the other reviewers. Comments can be presented either by page or by reviewer. Keep the comment discussions short with a focus on detection, not correction. Editorial comments are provided separately and are not discussed at the scheduled review.*

*Participate in categorizing comments. The comments will be categorized and documented as errors, defects, and action items. Refer to the definitions for the categorization rules, which are summarized as follows:*

* *Errors (i.e., problems in the material currently under peer review).*

*Optionally, errors are subcategorized as major (affects functionality and/or performance) and minor (does not affect functional- ity and/or performance).*

* *Defects (i.e., problems in materials previously peer reviewed).*

*Optionally, defects are al so subcategorized as major and minor.*

*Note: Defects will further be categorized as delivered or undelivered in the program’s change request system.*

* *Action items (i.e., unre solved comments requiring further investigation)*
* *A comment can remain categorized as a comment if the reviewers and presenters agree that there is no error, defect, or action item required.*

*To complete the peer review you must identify errors, defects, and action items to be re solved and documented. If needed, follow the program’s or project’s defined decision-making processes to elevate and reconcile any issues encountered in re solving peer review errors, defects, or action items with appropriate stakeholders. To ensure completion, per- form the following:*

* *Correct all errors and update the peer review information to indicate that the error is re solved.*
* *Submit change request paperwork for all defects. The status and tracking of the defect corrections are then handled through the change request system. The defects as sociated with the peer review should indicate this transfer and are categorized as re solved, allowing the peer review to be closed.*
* *Re solve and complete all action items. If any action items cannot be completed within the two-week period, these action items should be moved to the program- or project-level action item tracking system. The action items as sociated with the peer review should indicate this transfer and are categorized as re solved, allowing the peer review to be closed.*

# REVIEW TYPES

*Design and code reviews promise to improve software quality, ensure compliance with standards, and serve as a valuable teaching to al for developers. As with most practices, there are subtle nuances surrounding how they're performed that can dramatically affect their value. In some organizations, reviews are a valuable aspect of the software lifecycle. In others, they are a necessary evil tainted with political bureaucracy and big egos. Suboptimal reviews conducted late in the lifecycle are often misguided due to few objective guidelines that help guide the review process. When used throughout the development lifecycle, code and design quality metrics are valuable inputs to the review process.*

* 1. *Reviews Increase Agility Continuous Integration.*

*Agile practices are abundant, and for many teams interested in increasing their agility, valuable energy and re sources have been devoted to improving these practices. Because of this, many teams have abandoned reviews while emphasizing other aspects of agility. But, reviews are an important to al in the agile to alkit.*

*A driving principle of the Agile Manifesto is continuous attention to technical excellence. Another is embracing and harnessing change as an opportunity to increase customer advantage. For developers, change often begins and ends with modifications to the source code. A poorly designed application with smelly code is a breeding ground for risk that makes change incredibly difficult, and is the greatest technical inhibitor to increased agility. Effective reviews that emphasize design quality and code cleanliness are an important aspect of increased agility. Reviews done right help ensure continuous attention to technical excellence. Unfortunately, not all reviews are done right.*

*1.2 Review Worst Practices*

*some development teams find reviews a healthy and valuable asset to developers and the project team. Other teams realize little value from their review process. There are numerous causes for painful and ineffective reviews. some symptoms of ineffective reviews include:*

* *Witch hunt reviews - Many reviews degrade quickly into attack and defend mode. This often occurs because the developer who wrote the code feels attacked and threatened when reviewers make direct and opinionated statements about the code. Nothing could be less productive.*
* *Curly brace reviews - some reviews emphasize formatting and comments instead of more serious problems. Is placement of curly braces and misspelled comments really that important? Curly brace reviews are feeding ground for the anal retentive, and provide no real value.*
* *Blind reviews - Often times, reviewers walk into the review meeting having never laid eyes on the code they are about to review. Most of the review time is spent trying to figure out what the code does. Spending time in the review meeting attempting to understand the code instead of reviewing it for more serious ailments is a waste of time.*
* *Exclusionary reviews - Many times, the code provided for the review is only a sampling of the code written. For example, unit tests might be excluded from the review. In an unhealthy review environment, providing impartial and incomplete code listings will leave the reviewers wondering how the code actually works.*
* *Tree killer review - If you can't baffle them by providing half of what they need to understand the code, then maybe overwhelming them by providing thousands of lines of code might work. Waiting until codebase is incredibly large to host the first review is entirely ineffective. Not only is it to difficult to provide effective feedback on a large codebase, these reviews are often held late in the lifecycle and do not allow the developer to improve her code based on the feedback received.*
* *Token review - It's not uncommon for management to dictate that reviews be held. Token reviews are typically held for political rea sons. Management wants to ensure that all code is reviewed for auditing purposes. Unfortunately, developers realize very little value surrounding these reviews. Any problems found are not fixed unless they are ab solutely critical. Since the primary motivation is an audit trail for management, the team has little motivation to improve the code.*
* *World review- The reviews conducted with great number of people in attendance. This can be incredibly intimidating for the developers whose code is being reviewed, and it is not sure what value it provides to invite so many people. A few developers, up to five, should serve all the needs required of the review process. If more people want to provide input, there are better ways.*

*The Design checklist is as follows:*

* *Deficiencies and conflicts in requirements, architecture, or program/project plans will be reported.*
* *Design decisions and the decision rationales will be recorded according to plans and defined processes.*
* *To p-level software components of the software end item will be identified and described.*
* *Static relationships between to p-level software components will be defined.*
* *Dynamic relationships between to p-level software components will be defined.*
* *The concepts of execution of the software end item and its components will be defined.*
* *External interfaces of the software end item and its components will be identified and described.*
* *To p-level software components will be decomposed into lower-level software units.*
* *Internal interfaces between software units will be identified and described according to the standards identified by the project.*
* *Design traceability data will be documented according to plans, processes, and product standards.*
* *Design definitions will be documented according to plans, defined processes, and standards.*
* *Measurement and estimated data will be collected.*
* *Applicable work products will be submitted for peer reviews in accordance with project plans.*
* *Applicable work products will be submitted for control in accordance with program or project plans.*

# VERIFICATION SUMMARY

*Note: The verification summary is required to be written for all the objectives and processes as they were detailed as User Stories. Replicate the standard template for objectives and process for the goals.*

# VERIFICATION STEPS: GOAL-1

|  |  |
| --- | --- |
| *Objective-1* | *Retain Archaeological Data* |
| *Purpose* | *This will ensure the reliability and correctness of data* |
| *Target Audience* | *Tourists* |
| *Status* | *Completed* |
| *Role:* | ***As an*** *developer* |
| *Verification Steps* | *1. Verify that data creation is done* |
|  | *2. Verify that all information is valid.* |
|  | *3. Verify created database and schema.* |
|  | *4. Verify that archaeological data has been fetched.* |
|  | *5. Verify Database structure.* |
|  | *6. Verify that database has been populated.* |
|  | *7. Verify that database backup is available.* |
|  | *8. Verify that the backup accessible.* |
|  | *9. Verify proper database privileges and security.* |
|  | *10. Verify Place details page content.* |

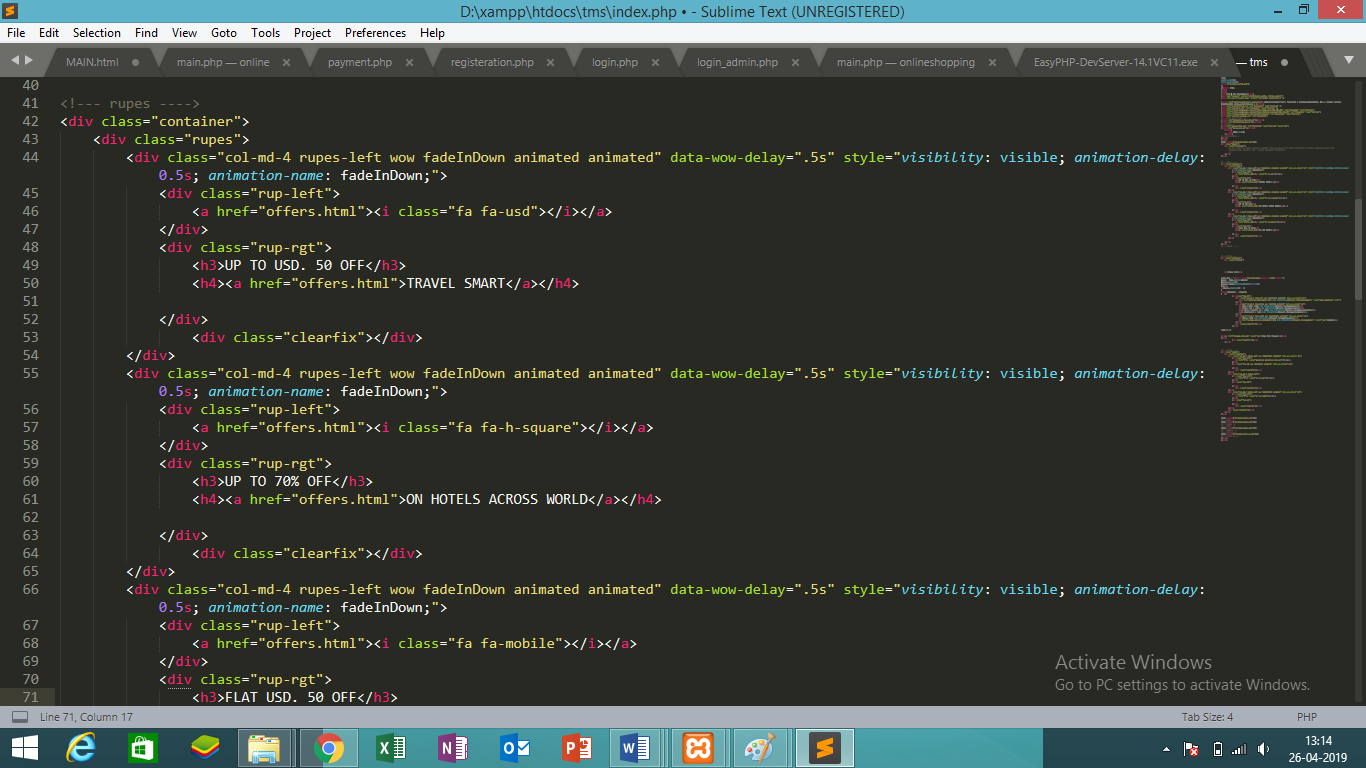
|  |  |
| --- | --- |
| *Process-1* | *Acquire Archaeological information* |
| *Purpose* | *Collect data for creating database* |
| *Target Audience* | *Internal Stakeholders* |
| *Status* | *Completed* |
| *Role:* | ***As a*** *developer* |
| *Verification Steps* | *1. Verify that required fields are correctly decided.* |
|  | *2. Validate the information statistics* |
|  | *3. Verify that the fields in database are created* |
|  | *4. Validate archaeological data inputs* |
|  | *5. Verify that data statistics are added* |
|  | *6. Validate the data limits and bounds* |
|  | *7. Verify population of the system database* |
|  | *8.Verify proper indexing of the database* |
|  | *9.Verify database structure* |
|  | *10. Verify that changes to original database are kept track of.* |

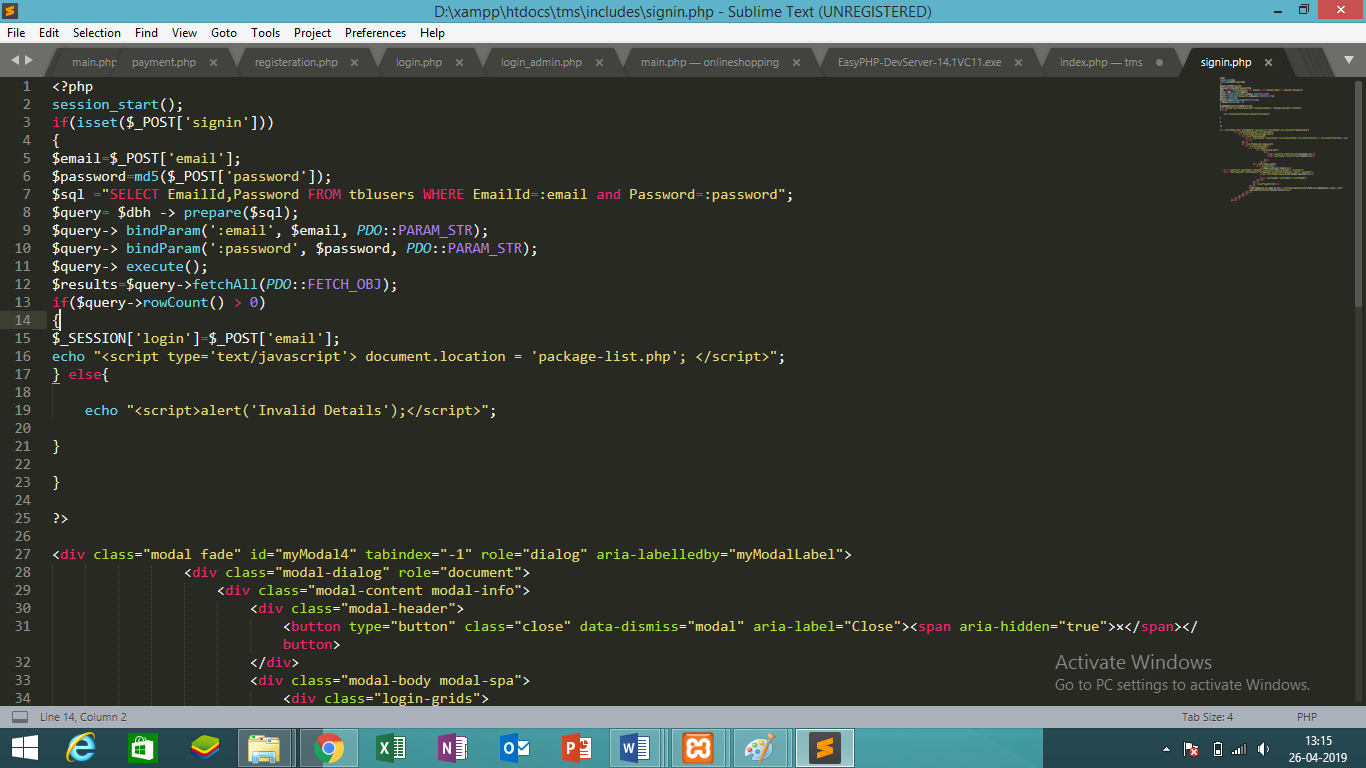
|  |  |
| --- | --- |
| *Ac* | *Clean Data Abnormalities* |
| *Purpose* | *To keep the data relative and precise.* |
| *Target Audience* | *Developer* |
| *Status* | *On-going* |
| *Role:* | ***As a*** *developer* |
| *Verification Steps* | *1.Validate Place profile format* |
|  | *2.Validate place attribute ranges* |
|  | *3.Verify graph plotting of values is complete* |
|  | *4.Verify that abnormalities, if any are detected* |
|  | *5.Verify that the abnormality can be found and accessed* |
|  | *6.Verify the method of generating improvised data* |
|  | *7.Validate corrected abnormality* |
|  | *8.Verify that the changes have been committed on the database* |
|  | *9.Verify that the data that was corrected wasn’t in use.* |
|  | *10.Verify that the changes are logged* |

|  |  |
| --- | --- |
| *Objective-2* | *Acquire correct information* |
| *Purpose* | *To decide the place to be visited by visitor* |
| *Target Audience* | *Tourists/visitors* |
| *Status* | *Completed* |
| *Role:* | ***As a*** *developer* |
| *Verification Steps* | *1. Verify Organisation of place entries in database* |
|  | *2. Verify the Design patterns for attributes* |
|  | *3. Verify the output parameters* |
|  | *4. Verify the important parameters priority* |
|  | *5. Verify the short-listed places* |
|  | *6. Verify Organisation of the parameters* |
|  | *7. Verify the formulated observations* |
|  | *8. Verify correspondence with Analysis team* |
|  | *9. Verify the con solidation of analysis process* |
|  | *10. Verify the final analysis methodology* |

|  |  |
| --- | --- |
| *Process-1* | *Filter Relevant Data* |
| *Purpose* | *The purpose is to get detailed, relevant data about archaeological places which is filtered* |
| *Target Audience* | *Tourists* |
| *Status* | *On-going* |
| *Role:* | ***As an*** *developer* |
| *Verification Steps* | *1. Verify that a certain place can be found* |
|  | *2. Verify that the details of the places* |
|  | *3. Verify that a curated list of places can be generated* |
|  | *4. Verify that similar places in same position can be found* |
|  | *5. Verify that places can be ordered by ranking* |
|  | *6. Verify that all places with comparable ranking can be seen* |
|  | *7. Verify that statistics indicating on field behaviour can be accessed* |
|  | *8. Verify that the statistics indicating off field characteristics can be accessed* |
|  | *9. Verify that places current group can be seen* |
|  | *10. Verify that places current information can be seen* |

|  |  |
| --- | --- |
| *Process-2* | *Ascertain Data Correctness* |
| *Purpose* | *This will ensure the reliability and correctness of system.* |
| *Target Audience* | *Visitors* |
| *Status* | *Completed* |
| *Role:* | ***As an*** *developer* |
| *Verification Steps* | *1. Validate correct places data* |
|  | *2. Validate exact information from database* |
|  | *3. Verify appropriate info of the place.* |
|  | *4. Validate Place Data accessibility* |
|  | *5. Verify that all information is accessible* |
|  | *6. Verify place value prediction feasibility* |
|  | *7. Verify precise database* |
|  | *8. Verify data validation process* |
|  | *9. Verify background checks* |
|  | *10. Verify the data sources* |

**

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# VERIFICATION STEPS: GOAL-2

|  |  |
| --- | --- |
| *Objective-1* | *Rank Archaeological places.* |
| *Purpose* | *Make groups in the database according to ranking attributes to help distinguish them.* |
| *Target Audience* | *External Stakeholders* |
| *Status* | *On-going* |
| *Role:* | ***As a*** *system developer.* |
| *Verification Steps* | *1. Verify that more than 1 place can be added.* |
|  | *2. Validate saved data.* |
|  | *3. Validate Place Data Extraction.* |
|  | *4. Validate places.* |
|  | *5. Verify that other places can be accessed.* |
|  | *6. Verify a places form can be assessed.* |
|  | *7. Verify that ranking should be done according to review.* |
|  | *8. Verify that other places can be searched.* |
|  | *9. Verify that places information is available.* |
|  | *10. Verify that all pplace of system are accessible to user.* |

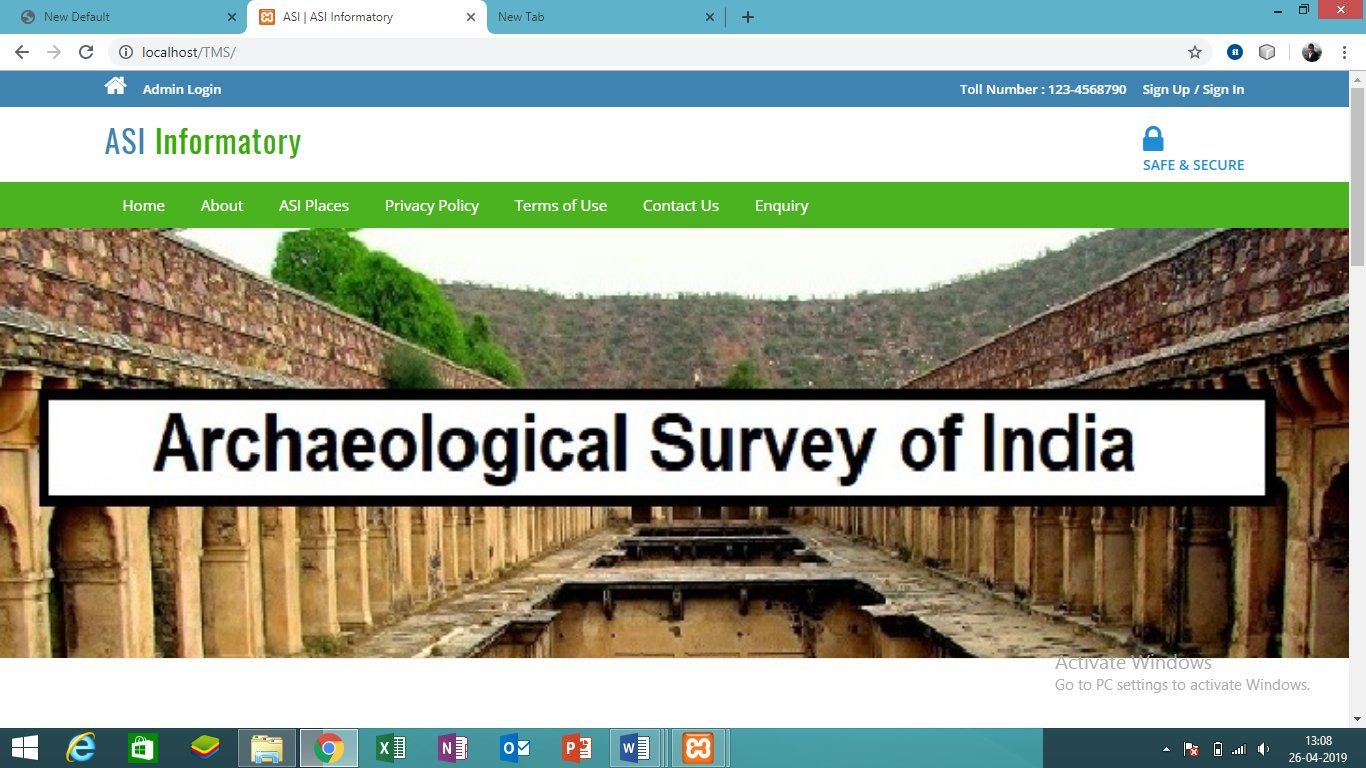
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| --- | --- |
| *Process-1* | *Extract Places ranks* |
| *Purpose* | *It will make it easier to search places.* |
| *Target Audience* | *External Stakeholders* |
| *Status* | *On-going* |
| *Role:* | ***As a*** *system developer.* |
| *Verification Steps* | *1. Verify that places rankings are listed.* |
|  | *2. Verify that the places ranking can be searched.* |
|  | *3. Verify places can be filtered according to ranking.* |
|  | *4. Verify that list contains places with same ranks.* |
|  | *5. Verify places rankings are listed to find out correct place.* |
|  | *6. Verify previous ranking.* |
|  | *7. Verify that visitors rating is listed.* |
|  | *8. Verify that places value is listed.* |
|  | *9. Validate value based on other similar reviews.* |
|  | *10. Verify that places sorted according to rankings.* |

|  |  |
| --- | --- |
| *Process-2* | *Extract Detailed information* |
| *Purpose* | *It will help obtain a better prediction.* |
| *Target Audience* | *Visitors.* |
| *Status* | *Completed* |
| *Role:* | ***As a*** *developer.* |
| *Verification Steps* | *1. Verify that places attributes are displayed.* |
|  | *2. Verify that location of places is displayed.* |
|  | *3. Verify that features are shown.* |
|  | *4. Verify importance of place from the news.* |
|  | *5. Verify that ratings can be compared.* |
|  | *6. Verify that places are displayed.* |
|  | *7. Verify that places type can be checked.* |
|  | *8. Verify the time of visitors to visit place.* |
|  | *9. Validate the ranking statistics compari son.* |
|  | *10. Validate the ranking of the place.* |

|  |  |
| --- | --- |
| *Objective-2* | *Classify places.* |
| *Purpose* | *To make classes of places as per categories.* |
| *Target Audience* | *Internal Stakeholders* |
| *Status* | *Completed* |
| *Role:* | ***As a*** *Developer* |
| *Verification Steps* | *1. Verify correct data is acquired.* |
|  | *2. Verify data distribution is performed.* |
|  | *3. Verify inconsistencies are fixed.* |
|  | *4. Verify that places are prototyped.* |
|  | *5. Verify places data are established.* |
|  | *6. Verify the places are classified according to category* |
|  | *7. Validate the basis of rankings* |
|  | *8. Validate encoding method is chosen.* |
|  | *9. Validate encoding analysis is established.* |
|  | *10. Verify results are integrated.* |

|  |  |
| --- | --- |
| *Process-1* | *Group Places* |
| *Purpose* | *Decide attributes that can decide classes and groups.* |
| *Target Audience* | *Customers/ Stakeholders* |
| *Status* | *On-going/ Completed* |
| *Role:* | ***As a*** *Developer* |
| *Verification Steps* | *1. Verify place data is acquired.* |
|  | *2. Validate correct attributes are identified.* |
|  | *3. Validate attribute wise data is examined.* |
|  | *4. Verify attributes are extracted for grouping.* |
|  | *5. Verify inconsistencies are detected.* |
|  | *6. Validate inconsistencies are repaired and normalised.* |
|  | *7. Validate correctness of data is verified.* |
|  | *8. Validate place group creation.* |
|  | *9. Verify the groups are demonstrated.* |
|  | *10. Validate places according to information* |

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| --- | --- |
| *Process-2* | *Verify Rankings* |
| *Purpose* | *Verify places ranks formed.* |
| *Target Audience* | *Visitors* |
| *Status* | *Completed* |
| *Role:* | ***As a*** *developer* |
| *Verification Steps* | *1. Verify places ranking are accessible.* |
|  | *2. Verify places ranks are analysed.* |
|  | *3. Validate conceptualisation of places ranks is done.* |
|  | *4. Verify the basis derived is validated.* |
|  | *5. Verify encoding technique is selected.* |
|  | *6. Verify technique is valid.* |
|  | *7. Validate encoding analysis.* |
|  | *8. Verify modified encoding technique.* |
|  | *9. Validate results of analysis.* |
|  | *10. Verify integrated results.* |



# VERIFICATION STEPS: GOAL-3

|  |  |
| --- | --- |
| *Objective-1* | *Categorize places* |
| *Purpose* | *Extract information from database.*  *catgorize places according to states and features.* |
| *Target Audience* | *Visitors* |
| *Status* | *On-going* |
| *Role:* | ***As a*** *developer* |
| *Verification Steps* | *1.Verify place data* |
|  | *2.Validate place data* |
|  | *3.Verify that irrelevant attributes are disposed* |
|  | *4.Verify the grouping and compari son attributes* |
|  | *5.Verify the domain knowledge gained* |
|  | *6.Verify that the domain knowledge gets represented in features* |
|  | *7.Verify place features standardization* |
|  | *8.Verify the data dimensionality* |
|  | *9.Verify different feature selection has been accomplished* |
|  | *10.Verify final data with selected features* |

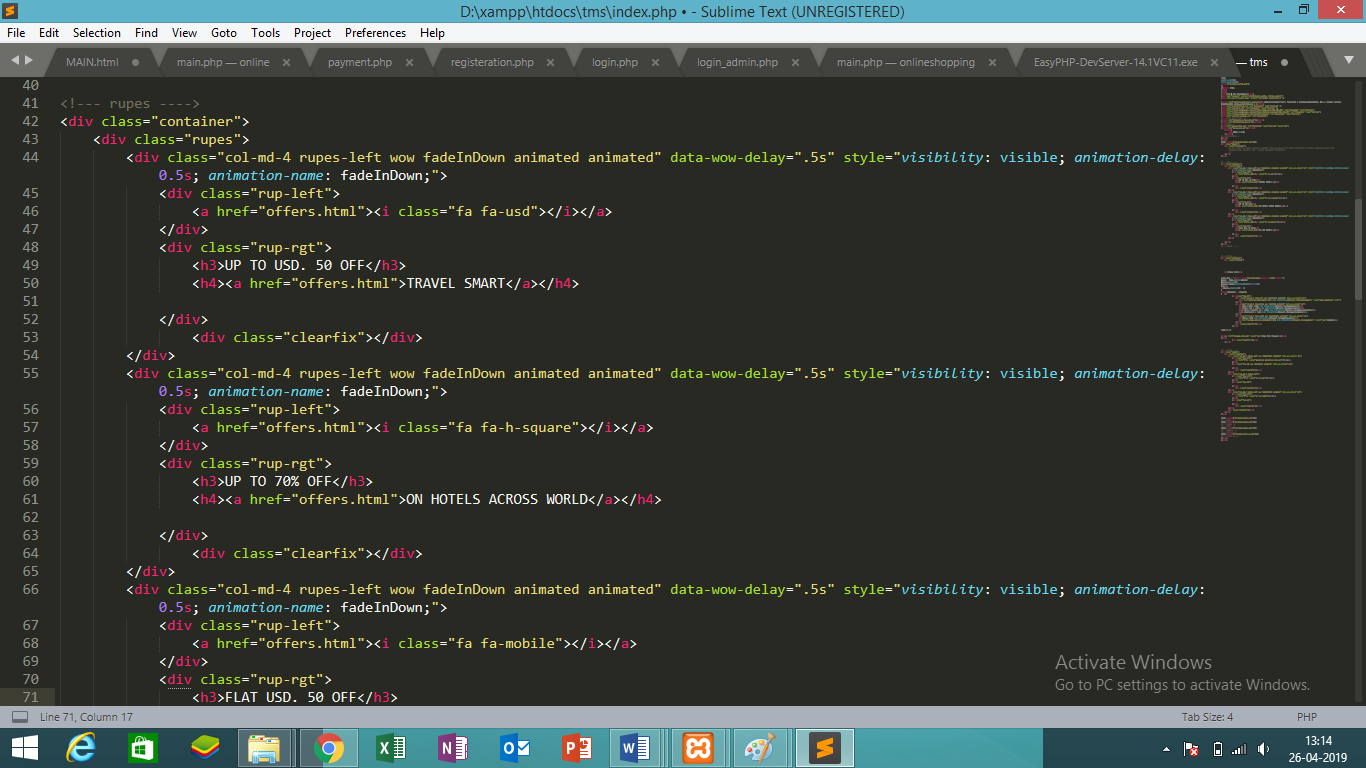
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| --- | --- |
| *Process-1* | *Store information to database* |
| *Purpose* | *Maintain the relation between the places and features.*  *Discard irrelevant information* |
| *Target Audience* | *Visitors* |
| *Status* | *Completed* |
| *Role:* | ***As a*** *developer* |
| *Verification Steps* | *1.Validate formatted place data* |
|  | *2.Verify available places features.* |
|  | *3.Verify only relevant attributes are present* |
|  | *4.Verify consistency of selected attributes* |
|  | *5.Validate attributes transformation* |
|  | *6.Verify the compari son attributes between places* |
|  | *7.Validate attributes by places positions* |
|  | *8.Validate attributes by states.* |
|  | *9.Validate attributes by features.* |
|  | *10.Verify insights gained with data* |

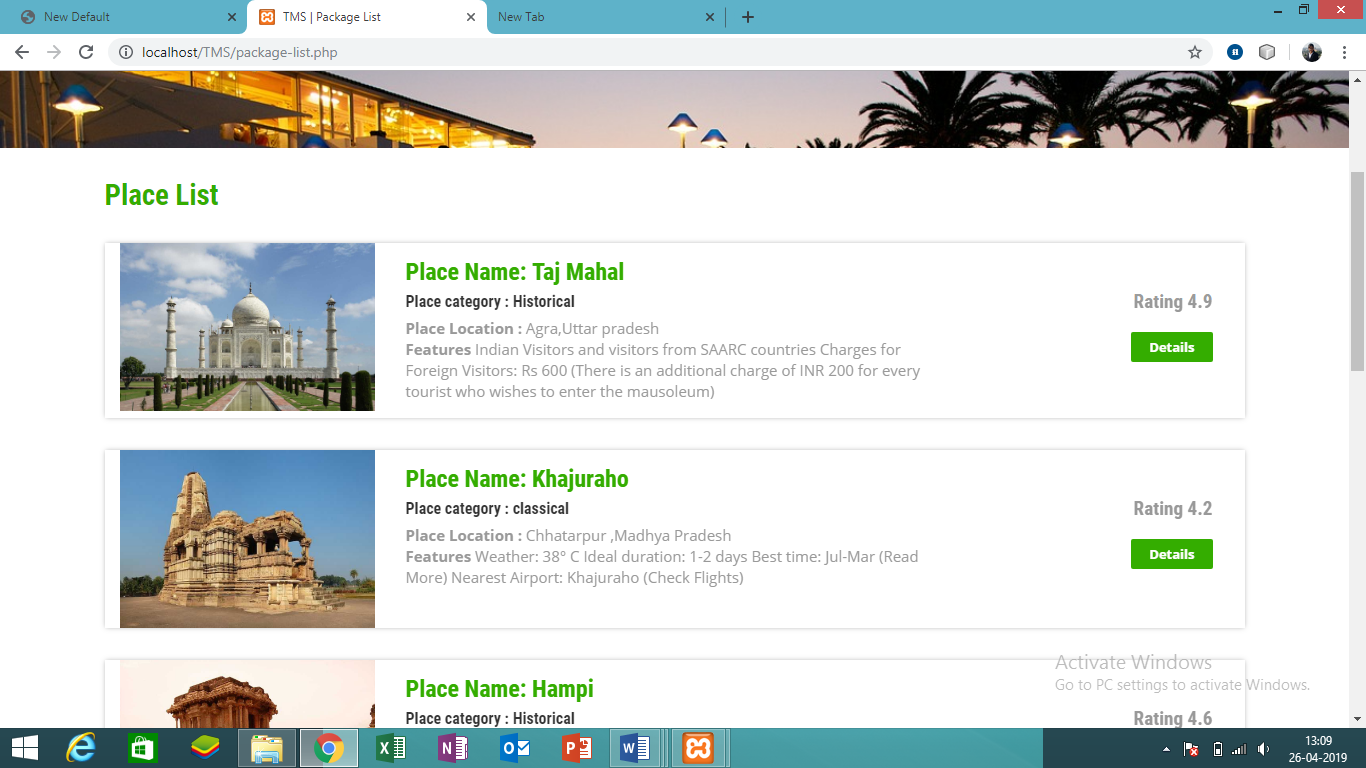
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| --- | --- |
| *Process-2* | *Access information.* |
| *Purpose* | *Get information from database easily.*  *Information must be accurate.* |
| *Target Audience* | *Visitors* |
| *Status* | *Completed.* |
| *Role:* | ***As a*** *developer* |
| *Verification Steps* | *1.Verify tabulation of place data* |
|  | *2.Verify the list of features that are valuable* |
|  | *3.Validate transformations on the features* |
|  | *4.Validate transformed features by visualization* |
|  | *5.Verify scaled features* |
|  | *6.Verify the scales of the features* |
|  | *7.Validate the features in dataset as a whole* |
|  | *8.Verify different feature selection strategies* |
|  | *9.Validate the application of feature selection strategy to the data* |
|  | *10.Verify integration of generated features and methods* |

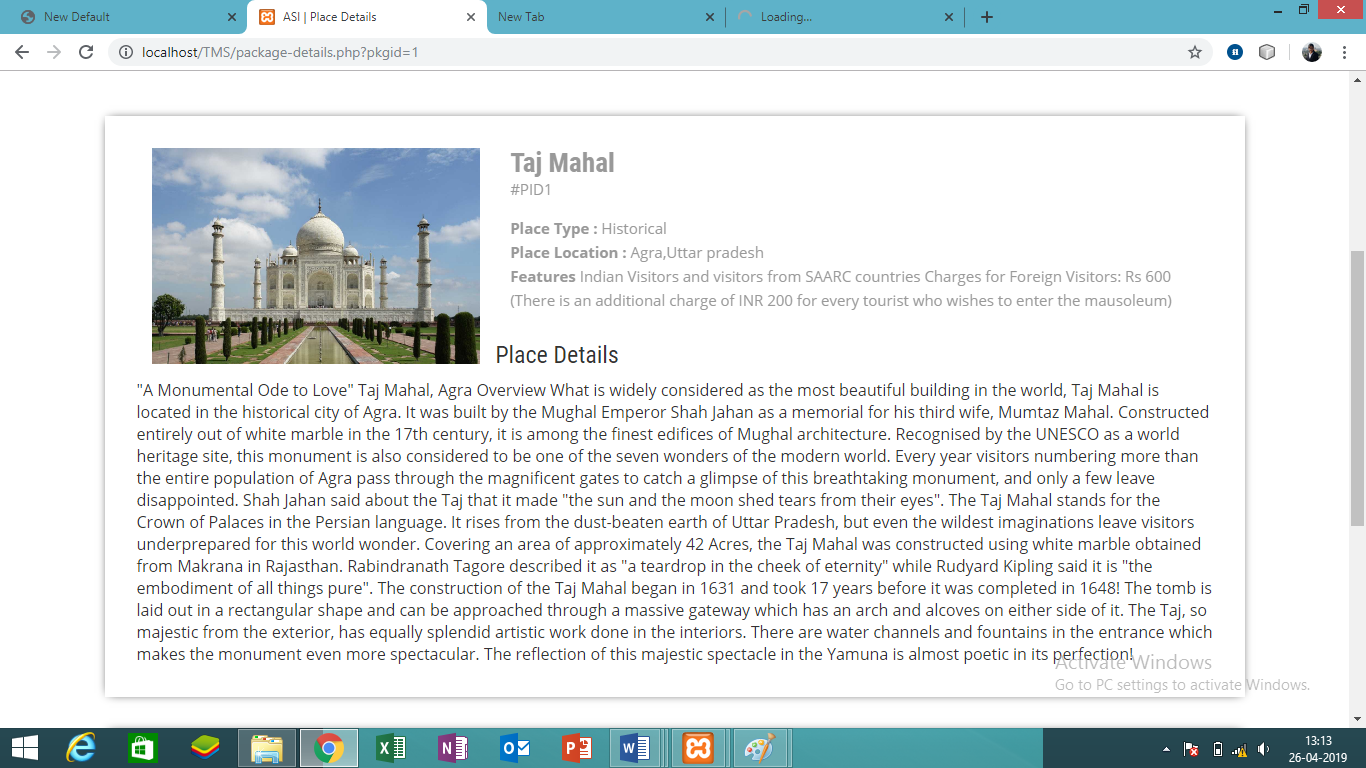
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| --- | --- |
| *Objective-2* | *Display data.* |
| *Purpose* | *Choose a statistical categorise*  *Verify its results*  *Optimise the parameters and store the model for further usage* |
| *Target Audience* | *Visitors.* |
| *Status* | *Completed* |
| *Role:* | ***As a*** *developer* |
| *Verification Steps* | *1.Verify that accessed data is in proper format* |
|  | *2.Verify the different statistical models* |
|  | *3.Verify the application of a model and its results* |
|  | *4.Verify the cross-validation and analysis of models* |
|  | *5.Verify and overview analysis* |
|  | *6.Verify selected optimal model parameters* |
|  | *7.Verify the modified parameters* |
|  | *8.Verify the cross-validation of changed parameter results* |
|  | *9.Verify the use different scoring methods* |
|  | *10.Verify the finalization on the model and parameters* |

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| --- | --- |
| *Process-1* | *Display Only specific features.* |
| *Purpose* | *Choose different category places*  *Identify specifications*  *Display to visitors.* |
| *Target Audience* | *Visitors.* |
| *Status* | *Completed* |
| *Role:* | ***As a*** *developer* |
| *Verification Steps* | *1.Verify the feature set.* |
|  | *2.Verify the input data to database is in proper format* |
|  | *3.Verify the specific features.* |
|  | *4.Verify different data.* |
|  | *5.Verify the results* |
|  | *6.Verify results of different categories.* |
|  | *7.Verify cross-validation on categories.* |
|  | *8.Verify the analysis of cross-validation results for categories.* |
|  | *9.Validate the output of selected data.* |
|  | *10.Verify the analysis* |

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| --- | --- |
| *Process-2* | *Display all features.* |
| *Purpose* | *Store all information to database.*  *Validate information*  *Display all information* |
| *Target Audience* | *Visitors.* |
| *Status* | *Completed* |
| *Role:* | ***As a*** *developer* |
| *Verification Steps* | *1.Verify that all features are correct.* |
|  | *2.Validate the categorization.* |
|  | *3.Verify the changed the parameters and the results* |
|  | *4.Verify the storage of the results with changed parameters* |
|  | *5.Verify the cross-validation of changed parameter results* |
|  | *6.Verify the Analysis of the cross-validation result* |
|  | *7.Verify the training of the model with optimal parameters* |
|  | *8.Verify the testing process of the model* |
|  | *9.Verify the different scoring methods used in testing* |
|  | *10.Verify the final model and parameters* |

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# VERIFICATION STEPS: GOAL-4

|  |  |
| --- | --- |
| *Objective-1* | *Process visitors queries* |
| *Purpose* | *To recognise user input.* |
| *Target Audience* | *Visitors* |
| *Status* | *Completed* |
| *Role:* | ***As a*** *developer* |
| *Verification Steps* | *1. Verify large numbers of queries can be detected.* |
|  | *2. Verify queries can be found easily.* |
|  | *3. Validate queries data in profile page.* |
|  | *4. Verify other queries are visible to user.* |
|  | *5. Validate data.* |
|  | *6. Verify news related to queries is displayed.* |
|  | *7. Validate place values from reliable sources.* |
|  | *8. Verify queries are displayed.* |
|  | *9. Verify that all queries are maintain.* |
|  | *10. Validate the insights were used.* |

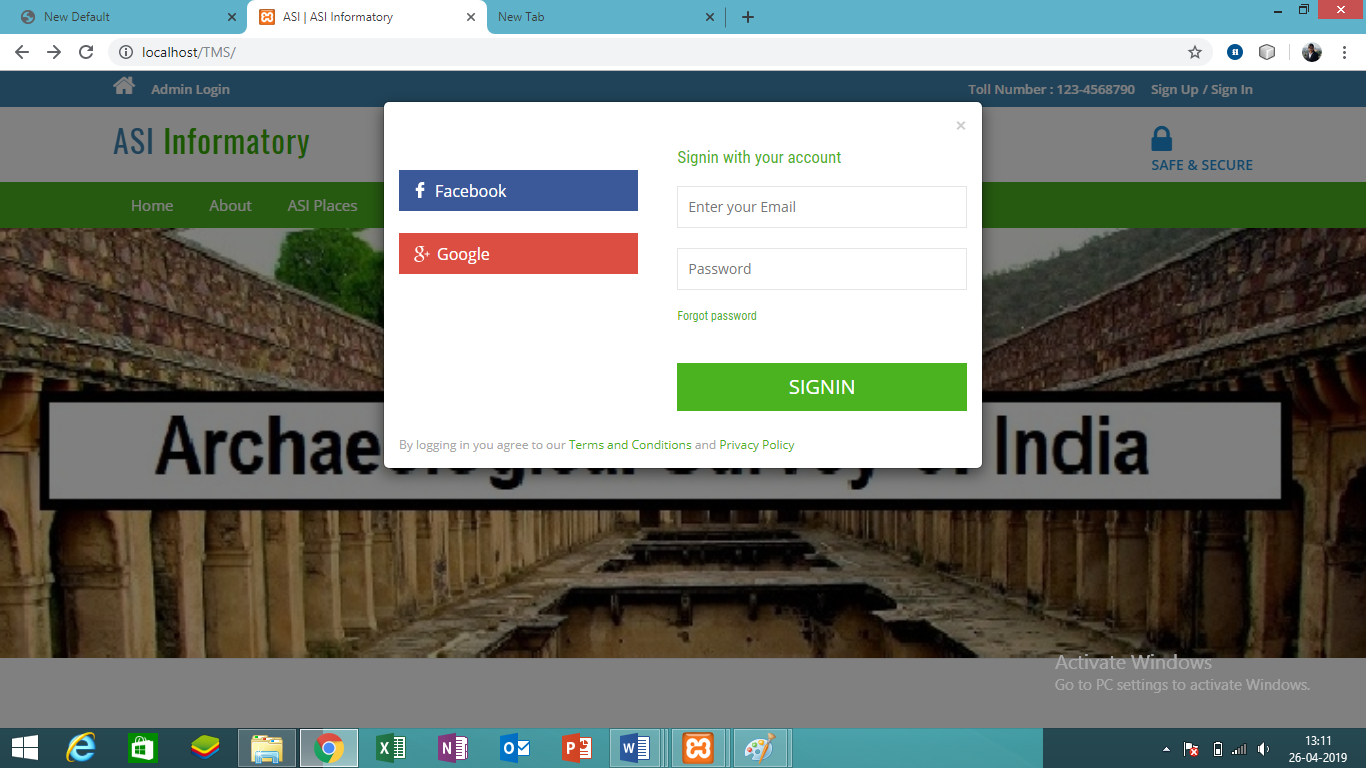
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| --- | --- |
| *Process-1* | *Visitors login* |
| *Purpose* | *Visitors login.*  *Verify visitors.*  *Ask about queries.* |
| *Target Audience* | *Visitors.* |
| *Status* | *Completed* |
| *Role:* | ***As a*** *database manager* |
| *Verification Steps* | *1. Verify large numbers of queries can be added.* |
|  | *2. Verify queries can be found easily.* |
|  | *3. Validate visitors data in login page.* |
|  | *4. Verify other queries are visible to user.* |
|  | *5. Validate queries data.* |
|  | *6. Verify related queries.* |
|  | *7. Validate answers from reliable sources.* |
|  | *8. Verify queries to display.* |
|  | *9. Verify valid queries.* |
|  | *10. Validate the insights were used.* |

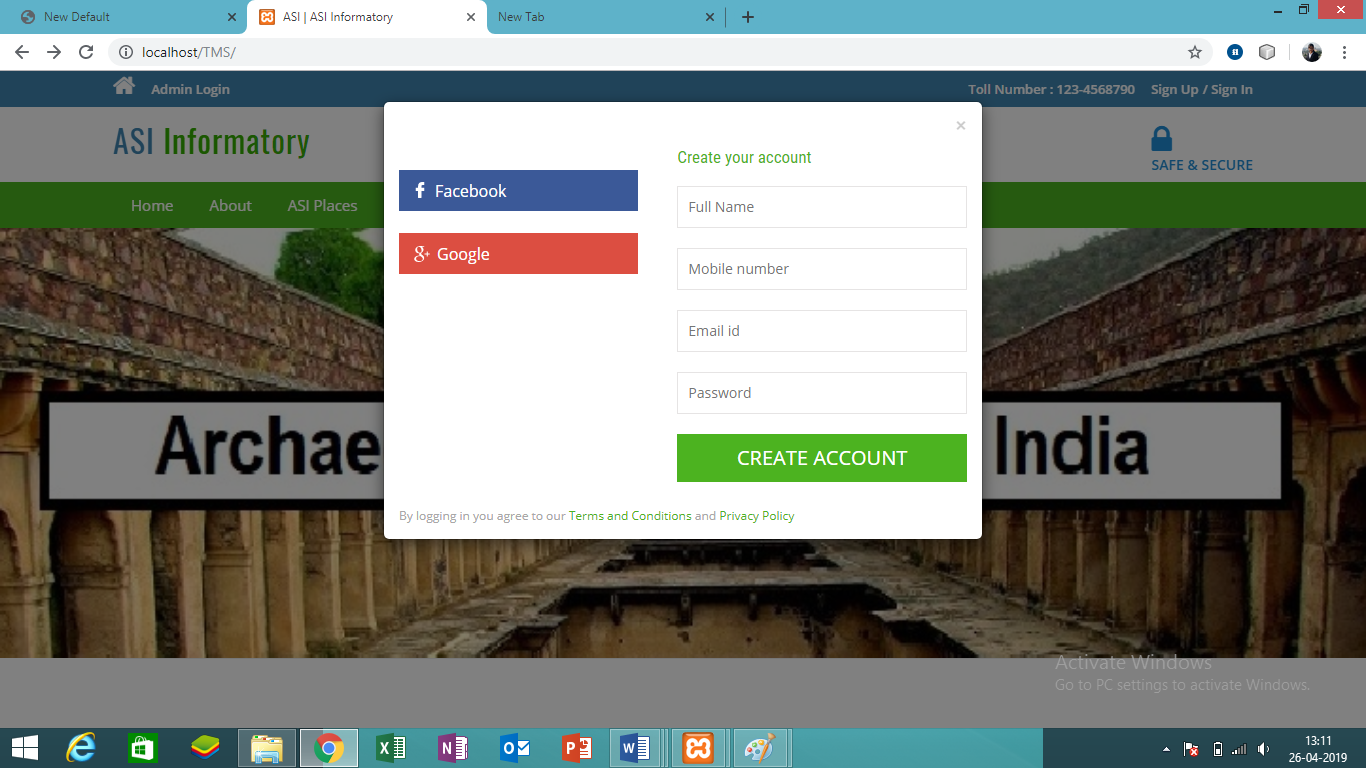
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| --- | --- |
| *Process-2* | *Execute Queries.* |
| *Purpose* | *This will enable the output of the system.* |
| *Target Audience* | *Internal Stakeholders* |
| *Status* | *Completed* |
| *Role:* | ***As a*** *developer* |
| *Verification Steps* | *1. Verify formatted user queries accessed.* |
|  | *2. Verify player data is used for prediction* |
|  | *3. Validate used player data.* |
|  | *4. Verify input error is found.* |
|  | *5. Validate data is normalised.* |
|  | *6. Verify predictions process is initiated.* |
|  | *7. Validate query data is included.* |
|  | *8. Verify query extracts output.* |
|  | *9. Verify session is valid after output.* |
|  | *10. Verify that the objective is met.* |

|  |  |
| --- | --- |
| *Objective-2* | *Maintain Records of queries.* |
| *Purpose* | *To handle user input data.* |
| *Target Audience* | *Visitors* |
| *Status* | *Completed* |
| *Role:* | ***As a*** *end user* |
| *Verification Steps* | *1. Verify all queries are accessible.* |
|  | *2. Verify anomalies are removed.* |
|  | *3. Verify errors are found.* |
|  | *4. Verify errors are suggested for correction.* |
|  | *5. Validate query attributes in GUI.* |
|  | *6. Verify data is provided to the system.* |
|  | *7. Verify data is used in formula.* |
|  | *8. Validate query l to generate predicted value.* |
|  | *9. Validate predicted value.* |
|  | *10. Verify correct value is displayed for visitors.* |

|  |  |
| --- | --- |
| *Process-1* | *Pre-Process Query data.* |
| *Purpose* | *This will pre-process data.*  *Deciding validate data.*  *Display pre-process data.* |
| *Target Audience* | *Internal Stakeholders* |
| *Status* | *Completed* |
| *Role:* | *As a developer* |
| *Verification Steps* | *1.Verify raw query data* |
|  | *2.Validate processed query data* |
|  | *3.Verify unnecessary attributes are eliminated* |
|  | *4. Verify grouping* |
|  | *5.Verify domain knowledge gained* |
|  | *6.Validate the domain knowledge features representation* |
|  | *7.Verify query features standardization* |
|  | *8.Validate data dimensionality* |
|  | *9.Verify usage of different feature selection strategies* |
|  | *10.Validate final data with features* |

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| --- | --- |
| *Process-2* | *Append Relevant Dataset* |
| *Purpose* | *To append these values in the database.* |
| *Target Audience* | *Visitors.* |
| *Status* | *Completed* |
| *Role:* | ***As a*** *developer* |
| *Verification Steps* | *1. Verify all queries can be viewed.* |
|  | *2. Verify visitors profiles can be accessed.* |
|  | *3. Validate removal of anomalies.* |
|  | *4. Validate queries data output.* |
|  | *5. Validate data is fed to database.* |
|  | *6. Verify errors are compared.* |
|  | *7. Validate all attributes are viewable.* |
|  | *8. Verify important attributes are segregated.* |
|  | *9. Verify estimated value is calculated.* |
|  | *10. Validate the user profiles are consistent.* |





# VERIFICATION STEPS: GOAL-5

|  |  |
| --- | --- |
| *Objective-1* | *Generate tourists alert* |
| *Purpose* | *Alert tourists about places*  *Alert about various critical situations to tourists.* |
| *Target Audience* | *Stakeholders* |
| *Status* | *Completed* |
| *Role:* | ***As a*** *developer* |
| *Verification Steps* | *1.Validate the generated performance score* |
|  | *2.Validate the generated data.* |
|  | *3.Validate the number of goals scored* |
|  | *4.Verify the skills of the tourists.* |
|  | *5.Verify the popularity of the tourists.* |
|  | *6.Verify the told statistics* |
|  | *7.Verify the past situations.* |
|  | *8.Validate the proper alerts,* |
|  | *9.Validate the net worth of the alert message* |
|  | *10.Validate the collected miscellaneous data* |

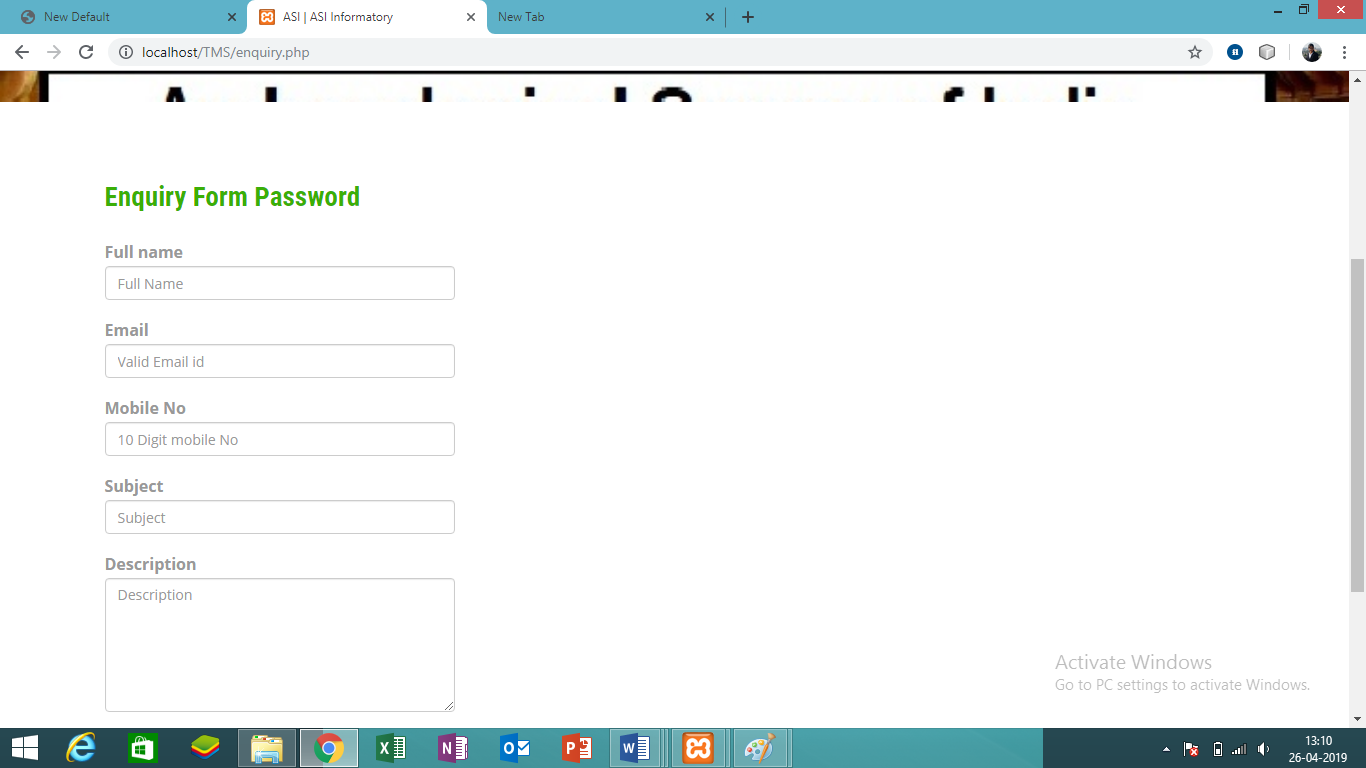
|  |  |
| --- | --- |
| *Process-1* | *Find Alert Statistics* |
| *Purpose* | *Find critical situations*  *Analysis of critical situations.* |
| *Target Audience* | *Visitors.* |
| *Status* | *Completed* |
| *Role:* | ***As a*** *developer* |
| *Verification Steps* | *1.Validate the collected place data* |
|  | *2.Validate the alert messages.* |
|  | *3.Verify the alerts of the places* |
|  | *4.Verify the critical situations* |
|  | *5.Verify all the non-basic deatails.* |
|  | *6.Verify the extra details added* |
|  | *7.Verify the best details* |
|  | *8.Verify the use of social network* |
|  | *9.Validate the queries* |
|  | *10.Veify the alert message.* |

|  |  |
| --- | --- |
| *Process-2* | *Communicate Relevant Statistics* |
| *Purpose* | *All statistic should be display.*  *Generate alert messages.* |
| *Target Audience* | *Visitors.* |
| *Status* | *Completed* |
| *Role:* | ***As a*** *user* |
| *Verification Steps* | *1.Verify the basic details* |
|  | *2.Validate the queries statistics* |
|  | *3.Verify the visitors social life* |
|  | *4.Validate the miscellaneous details* |
|  | *5.Verify the visitors behaviour* |
|  | *6.Verify the visitors past* |
|  | *7.Verify the visitors data.* |
|  | *8.Verify the visitors controversies* |
|  | *9. Verify the visitors records.* |
|  | *10.Validate the visitors relevant data* |

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| --- | --- |
| *Objective-2* | *Display Statistics* |
| *Purpose* | *Display all statistics data.*  *Validate Data.* |
| *Target Audience* | *Visitors.* |
| *Status* | *Completed* |
| *Role:* | ***As a*** *developer* |
| *Verification Steps* | *1.Validate the created bar graph* |
|  | *2. Validate the created pie graph* |
|  | *3. Validate the created scatter graph* |
|  | *4. Validate the created deviation graph* |
|  | *5. Validate the created growth chart* |
|  | *6.Verify the visitors downfalls* |
|  | *7. Validate the places rankings* |
|  | *8.Verify the places milestones* |
|  | *9. Verify the places data.* |
|  | *10.Validate the miscellaneous data* |

|  |  |
| --- | --- |
| *Process-1* | *Generate Statistical Graphs* |
| *Purpose* | *Show record of the system.*  *Validate system.* |
| *Target Audience* | *Stakeholders* |
| *Status* | *Completed* |
| *Role:* | ***As a*** *developer* |
| *Verification Steps* | *1.Validate the sorted places data* |
|  | *2.Validate the appropriate library for graph plotting* |
|  | *3.Validate the retrieved places data* |
|  | *4.Validate the labelled places graphs* |
|  | *5.Verify whether appropriate scale has been chosen* |
|  | *6.Verify the use of correct colours* |
|  | *7.Validate the plotted graphs* |
|  | *8.Validate the plaaces ranking* |
|  | *9.Verify the variation in performance of the system* |
|  | *10.Verify the places net worth graph* |

|  |  |
| --- | --- |
| *Process-2* | *Choose Relevant Statistics* |
| *Purpose* | *Choose data*  *Display data* |
| *Target Audience* | *Stakeholders* |
| *Status* | *Completed* |
| *Role:* | ***As a*** *developer* |
| *Verification Steps* | *1. Validate the sorted places data* |
|  | *2. Verify that data segments ae prioritized* |
|  | *3. Verify if it is shown in tabular form* |
|  | *4. Verify if different categories of data are being made* |
|  | *5. Verify whether data with anomalies is hidden* |
|  | *6. Verify the links of data* |
|  | *7. Verify that all places are shown* |
|  | *8. Validate the updated statistics* |
|  | *9. Verify that the highlights are shown* |
|  | *10. Verify Statistics can be viewed* |

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# 6 VERIFICATION STEPS: GOAL-6

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| --- | --- |
| *Objective-1* | *Create visitors analysis reports* |
| *Purpose* | *To improve the facilities at the places ,*  *Report analysis for changes* |
| *Target Audience* | *Stakeholders* |
| *Status* | *Completed* |
| *Role:* | ***As a*** *developer* |
| *Verification Steps* | *1.Validate the basic place details* |
|  | *2.Verify if the place data has been scaled from respected source* |
|  | *3.Validate the details entered by the end user* |
|  | *4.Verify whether all anomalies have been deleted* |
|  | *5.Verify that data admin has been called to delete big mistakes* |
|  | *6.Verify that each place category has been appended* |
|  | *7.Verify that all visitors have submitted reports* |
|  | *8.Verify that a good structure has been made* |
|  | *9.Verify that database has been normalized* |
|  | *10.Verify that unauthorized users are not able to access the database* |

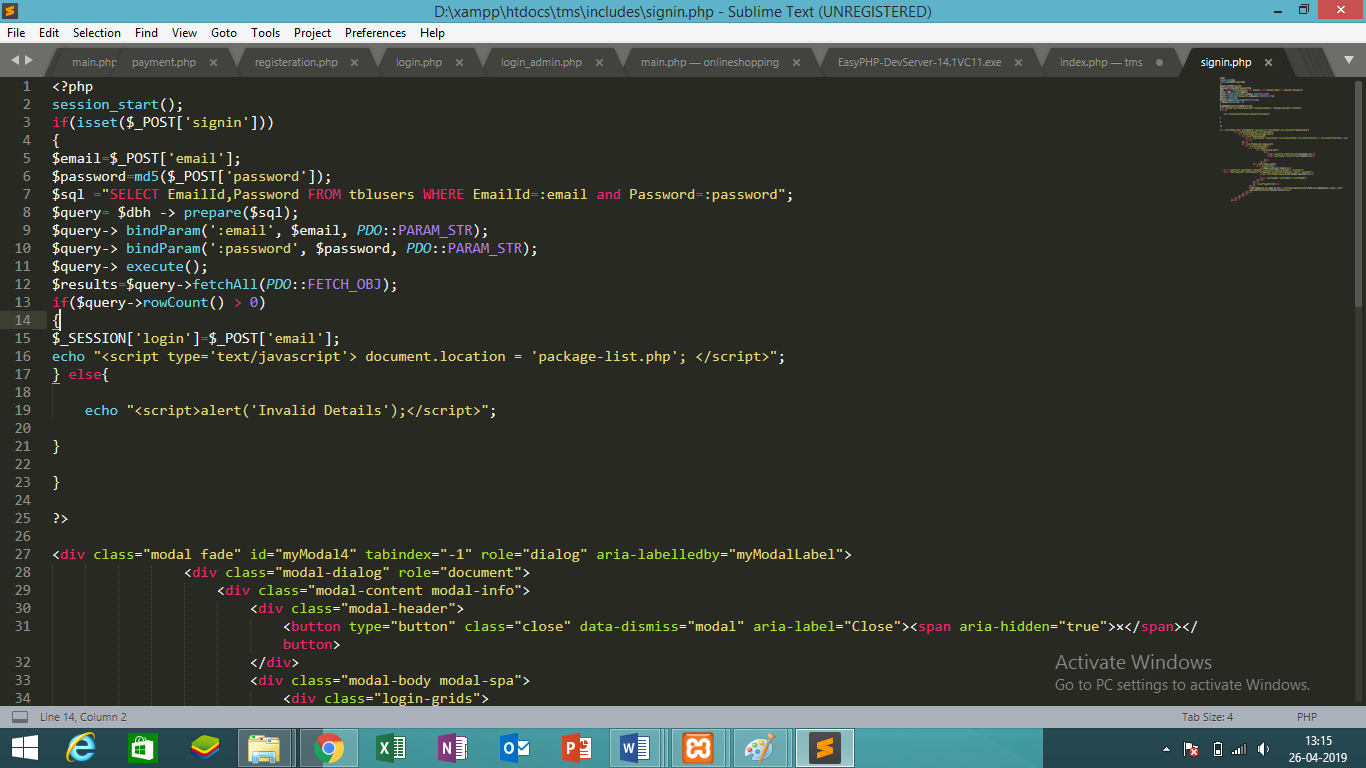
|  |  |
| --- | --- |
| *Process-1* | *Fetch report Data* |
| *Purpose* | *Analysis of all reports.*  *Maintainace of data.* |
| *Target Audience* | *Stakeholders* |
| *Status* | *Completed* |
| *Role:* | ***As a*** *developer* |
| *Verification Steps* | *1. Verify that data has been taken from end user* |
|  | *2. Verify that data has been taken web scraping* |
|  | *3. Validate data appended by admin* |
|  | *4. Validate data from dataset repositories* |
|  | *5. Validate the parsed data from different API* |
|  | *6. Verify that ranking has been taken from FIFA officials* |
|  | *7. Validate miscellaneous data from social networks* |
|  | *8. Validate data from news* |
|  | *9. Validate FIFA records* |
|  | *10. Verify that a forum has been created* |

|  |  |
| --- | --- |
| *Process-2* | *Feed Data information* |
| *Purpose* | *Fill all report information in the database.*  *Validate information.* |
| *Target Audience* | *Stakeholders* |
| *Status* | *Completed* |
| *Role:* | ***As a*** *developer* |
| *Verification Steps* | *1. Validate basic data in the main table* |
|  | *2. Validate player data in different categories* |
|  | *3. Validate the rankings inserted in the other table* |
|  | *4. Validate the inserted links about the player* |
|  | *5. Validate the photos and videos in the database* |
|  | *6. Validate the updated data in database* |
|  | *7. Validate statistics that affect prediction* |
|  | *8. Verify the R square value for data model* |
|  | *9. Validate confusion matrix for predicted values* |
|  | *10. Verify the use of dimensional reductionist* |

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| --- | --- |
| *Objective-2* | *Generate Predicted Value* |
| *Purpose* | *Generate all value actual.*  *Validate data.* |
| *Target Audience* | *Stakeholders* |
| *Status* | *Completed* |
| *Role:* | ***As a*** *developer* |
| *Verification Steps* | *1. Validate data used for prediction* |
|  | *2. Validate the calculated R square data* |
|  | *3. Validate the scaled data* |
|  | *4. Validate the categorised data* |
|  | *5. Verify that only good data has been used* |
|  | *6. Validate the trained model* |
|  | *7. Verify the use of different regression models* |
|  | *8. Validate the predicted test values* |
|  | *9. Validate the calculated confusion matrix* |
|  | *10. Validate the graph with predicted values* |

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| *Process 1* | *Communicate visitors reports* |
| *Purpose* | *All reports of the visitors must be analysed.*  *Accordingly improvement in the system must be done.* |
| *Target Audience* | *Stakeholders* |
| *Status* | *Completed* |
| *Role:* | ***As a*** *User* |
| *Verification Steps* | *1. Verify that a new table has been created for values* |
|  | *2. Validate the place details on the page* |
|  | *3. Verify all terms asked by the visitors* |
|  | *4. Verify the contract duration* |
|  | *5. Validate all contract details of the visitors.* |
|  | *6. Validate the net worth of visitors.* |
|  | *7. Validate the base price of the visitors.* |
|  | *8. Validate the current price of the visitors* |
|  | *9. Validate the predicted data.* |
|  | *10. Validate othe rdata that is similar* |

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| --- | --- |
| *Process 2* | *Display Predicted Value* |
| *Purpose* | *Display all record of the system.*  *Maintain all records.* |
| *Target Audience* | *Stakeholders* |
| *Status* | *Completed* |
| *Role:* | ***As a*** *User* |
| *Verification Steps* | *1. Verify the GUI* |
|  | *2. Validate all the data statistics* |
|  | *3. Validate all the basic data of the places* |
|  | *4. Validate all the places.* |
|  | *5. Validate all the values of the data.* |
|  | *6. Validate the places contract details* |
|  | *7. Validate the similar place details* |
|  | *8. Verify whether system Is visible on the site* |
|  | *9. Validate the all customized data.* |
|  | *10. Verify all data.* |



# VERIFICATION MATRIX

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *User Story* | *Step-1* | *Step-2* | *Step-3* | *Step-4* | *Step-5* | *Step-6* | *Step-7* | *Step-8* | *Step-9* | *Step-10* |
| *G1:O1* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* |
| *G1:P1* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* |
| *G1:P2* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* |
| *G1:O2* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* |
| *G1:P1* | *√* | *√* | *X* | *X* | *√* | *x* | *√* | *√* | *√* | *√* |
| *G1:P2* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* |
| *G2:O1* | *√* | *√* | *√* | *√* | *√* | *√* | *x* | *√* | *√* | *√* |
| *G2:P1* | *√* | *√* | *X* | *X* | *X* | *x* | *√* | *√* | *√* | *√* |
| *G2:P2* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *x* | *√* | *√* |
| *G2:O2* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* |
| *G2:P1* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* |
| *G2:P2* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* |
| *G3:O1* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* |
| *G3:P1* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* |
| *G3:P2* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* |
| *G3:O2* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* |
| *G3:P1* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* |
| *G3:P2* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* |
| *G4:O1* | *√* | *√* | *√* | *x* | *√* | *√* | *√* | *√* | *√* | *√* |
| *G4:P1* | *√* | *√* | *√* | *√* | *√* | *x* | *√* | *√* | *√* | *√* |
| *G4:P2* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* |
| *G4:O2* | *√* | *√* | *√* | *√* | *√* | *x* | *√* | *√* | *√* | *√* |
| *G4:P1* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *x* | *√* | *√* |
| *G4:P2* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* |
| *G5:O1* | *x* | *x* | *x* | *√* | *√* | *√* | *x* | *x* | *√* | *√* |
| *G5:P1* | *√* | *√* | *x* | *x* | *X* | *√* | *√* | *√* | *x* | *x* |
| *G5:P2* | *√* | *√* | *√* | *√* | *X* | *x* | *x* | *x* | *x* | *x* |
| *G5:O2* | *x* | *√* | *√* | *x* | *X* | *x* | *x* | *x* | *√* | *√* |
| *G5:P1* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *x* | *x* |
| *G5:P2* | *√* | *√* | *√* | *√* | *√* | *√* | *x* | *√* | *√* | *√* |
| *G6:O1* | *√* | *√* | *x* | *√* | *√* | *√* | *√* | *√* | *√* | *√* |
| *G6:P1* | *√* | *√* | *√* | *√* | *√* | *√* | *x* | *x* | *√* | *√* |
| *G6:P2* | *√* | *√* | *√* | *x* | *X* | *x* | *√* | *√* | *√* | *√* |
| *G6:O2* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* | *√* |
| *G6:P1* | *√* | *√* | *√* | *√* | *√* | *x* | *√* | *√* | *√* | *x* |
| *G6:P2* | *√* | *√* | *√* | *x* | *√* | *√* | *√* | *x* | *x* | *X* |