**TY. B. Tech.**

**CS 303: Software Engineering Laboratory**

**Assignments : 1 to 10**

**Fresher’s Recruitment System**

***28/11/2017***

***Version 1.0***

|  |  |  |  |
| --- | --- | --- | --- |
| Project Group Information | | | |
| Roll. No. | **Gr. No.** | **Name** | **Roles** |
| 36 | **151373** | **Revati Lachyan** | **Job Seeker** |
| 38 | **151745** | **Neel Vyawahare** | **Job Seeker** |
| 43 | **151762** | **Kshitij Yadav** | **Company Manager** |

**Approved by: Prof. Mahesh R. Dube**

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

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**TY. B. Tech.**

**CS 303: System Engineering Laboratory**

Assignment No: 1

**Fresher’s Recruitment System**

**Project Statement of Work**

***23-08-2017***

!!br0ken!!***Version 1.0***

|  |  |  |  |
| --- | --- | --- | --- |
| Project Group Information | | | |
| Roll. No. | **Gr. No.** | **Name** | **Roles** |
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|  |  |  |  |

**Approved By: Mahesh R. Dube**

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

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# TITLE

*“Fresher’s Recruitment System”*

*1.1 The proposed system is aimed at creating recruitment system for the company. One can easily understand from title that it is used by jobseekers only. This system will create a platform for jobseeker to get good job opportunity for their bright career in a convenient manner.*

*1.2 The system will also help the company to choose an appropriate candidate for desired post. It will also help to check the feasibility and technical knowledge for the desired post.*

# BACKGROUND

*Fresher's recruitment system is the process of jobseekers recruitment using internet.*

*Companies and recruitment agents have moved much for their recruitment process online so as to improve the speed by which jobseekers can be matched with live vacancies. Using database technologies job seekers can now fill posts in a previously possible. Fresher's recruitment system is the use of technology to assist the recruitment process*.

*2.1 To make the recruitment process easy.*

*2.2 In ‘Fresher’s Recruitment System’, authorised users are graduates and post-graduates.*

*2.3 Area of working is ethical security, coding, designing and testing.*

*2.4 For the manager post in company only post graduate person can apply. While for other posts in company like coder, tester, etc. everyone can apply having graduate degree in BE/B-Tech.*

*2.5 ‘Job Recruitment System’ can reach out to more job seekers to find perfect candidate for the company.*

# OBJECTIVE

*3.1 The objective of ‘Fresher’s Recruitment System’ is to provide perfect platform for jobseekers.*

*3.2 By this proposal, company and jobseekers can save their time easily.*

*3.3 To save the unnecessary expenditure of the company*

*3.4 Generate job statistics for the company*

*3.5 Generate random tests to check the overall knowledge required for the job*

*3.6 Terms and conditions of the company for recruiting the jobseekers*

# DEFINITIONS AND APPLICABLE DOCUMENTS

*Some important terms required to understand the system are following:*

|  |  |
| --- | --- |
| *Job Seeker* | *A person who is unemployed and searching for work* |
| *Administrator* | *Administrator is a person whose job involves helping to organize and supervise the way that an organization or institution functions.* |
| *Company* | *It is a place where many person work together.* |
| *CV* | *CV is an abbreviation for Curriculum Vitae.  If a job*  *advertisement asks for a CV, that is a hint that the employer expects a great deal of life experience and*  *accomplishments, including ,education, original research,*  *Presentations you have given and papers or books you have had published.* |
| *Aptitude Test* | *A test designed to determine a person ability in a particular skill or Field of knowledge.* |

*To get the exact idea for the designing of the system as well as requirements of necessary contents in the system, the team will decide to take feedback from some members of the company.*

# BUSINESS AND/OR TECHNICAL ENVIRONMENT

*The Business and Technical Environment of proposed system to succeed in a given time period is following:*

*1 At the first stage, the team will work daily two hours. But as per further requirements, the team may increase their working time for completion of the system in a given period.*

*2 Hypertext Mark-up Language(HTML), a standardized system for tagging text files to achieve font, colour, graphic, and hyperlink effects on World Wide Web pages.*

*Cascading style sheet (CSS) is a Web page derived from multiple sources with a defined order of precedence where the definitions of any style element*

*Conflict.*

*PHP is a server-side scripting language designed primarily for web development but also used as a general-purpose programming language. The PHP script is embedded within a web page along with its HTML. Before the page is sent to a user that has requested it, the Web server calls PHP to interpret and perform the operations called for in the PHP script.*

*MySQL: It is an open-source relational database management system (RDBMS).*

# DESCRIPTION AND SCOPE OF WORK

*The jobseeker should register in order to apply for the job. Jobseeker (he/she) should*

*then upload their certificates to prove his eligibility as per the eligibility criteria created by company. After that CVs should be uploaded by jobseekers. The online aptitude test will be conducted by company. The result will be announced and sent to the admin along with the CVs of selected candidate. Final selection takes place on the basis of the online test, HR rounds as well as CV which consist of the unknown deliverables like projects done, experience, etc.* *Jobseekers who had appeared for the test will get notifications. Also the unselected candidates will get notifications of future updates.*

*The ORS aims at making the recruitment process easier. This system can allow a company to conduct an online aptitude test and select the jobseeker for respective post. System can be used to complete the recruitment process in less time.*

*To collect the details of the jobseekers for understanding overall qualifications and achievements. To create the question bank for conducting the online test. Hence, it will help the recruitment process for selecting the candidates.*

*To get the clear picture of the job statistics and to inform the current conditions regarding jobs to the company and jobseekers. To make a set of questions with mixed level of difficulty. This will make the system unbiased.*

# DELIVERABLES

*The proposed system is in its primary stage. So, deliverables may change slightly as per the progress of system. But the contract and time required for proposed system will remain same at any case.*

*The team will decide the deliverables of the system as well as stage of development in other words the progress of system in that specific time period.*

|  |  |
| --- | --- |
| ***Development Stage of System*** | ***Time Period(in months)*** |
| *Statement of Work* | *August* |
| *Feature set of the system* | *August* |
| *System Requirement Specifications* | *September* |
| *Feasibility Study* | *September* |
| *Project Plan* | *September* |
| *Integrate system and Data operations* | *September and October* |
| *System deliver to company* | *November* |

# APPROACH AND METHODOLOGY

*8.1 For completion of the work under the resulting contract, the work of system will be subdivided in the team members of the team. Designing of the system by using web language create a front end of the system.*

*8.2 After that data collection, data analysis as well as validation of that data will take place so that it can be easily handle by company’s administration.*

*8.3 Designing of integrate system and the back end of the system will be formed simultaneously with the data operations.*

*8.4 Immediately after, the preview of the system will show to the company and their feedback about the system will take in considerations.*

*8.5 At the final stage, the delivery of proposed system will take place.*

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

**CS 303: Software Engineering Laboratory**

Assignment No: 2

**Fresher’s Recruitment System**

***Project Feature Set Description***

***30-08-2017***

*!!br0ken!!****Version 1.0***

|  |  |  |  |
| --- | --- | --- | --- |
| *Project Group Information* | | | |
| *Roll. No.* | ***Gr. No.*** | ***Name*** | ***Roles*** |
| 36 | **151373** | **Revati Lachyan** | **Job Seeker** |
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***Approved By: Prof. Dr. M. R. Dube***

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

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# *PROJECT VISION*

*The project vision of* ***“Fresher’s Recruitment System”*** *is to create a platform for jobseekers where they can apply for jobs in a convenient manner.*

# *PROJECT MISSION*

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

*2.1 To make a system which allows the jobseekers to apply for the job online. The users will also get the facility to upload the CV and appear for an online test used to shortlist the candidates.*

*2.2 This system will create equal opportunity for the jobseekers to appear for the next rounds for the job.*

*2.3 The system will try to check the candidate in all aspects such as technical knowledge required for the post, feasibility of the candidate, communication skills.*

*2.4 By using online test, the system will try to check problem solving approach of the jobseekers.*

# *PROJECT SCOPE*

***“Fresher’s Recruitment System”*** *will be made to only provide fair chance to all the jobseekers for various posts. This system makes the job selection totally unbiased. This system will also give an idea about the job selection statistics. The system provides an online test for the jobseekers which forms the first round of the selection process. The results then, will be informed to all the job seekers who appeared for the online test. Also, the facility of uploading the CV will be present.*

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

*3.1. Create Job Seeker Profile: - To collect the details of the jobseekers for understanding overall qualifications and achievements.*

*3.2. Build Test Assets: - To create the question bank for conducting the online test. Hence, it will help the recruitment process for selecting the candidates.*

*3.3. Notify Job Selection: - To inform the jobseekers whether they are promoting for the next round or not.*

*3.4. Generate Job Statistics: - To get the clear picture of the job statistics and to inform the current conditions regarding jobs to the company and jobseekers.*

*3.5. Generate Random Tests: - To make a set of questions with mixed level of difficulty. This will make the system unbiased.*

*3.6. Terms and Conditions: -This is the process joining report. It contains the terms and conditions of the company for the jobseeker.*

# *GOALS*

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

1. *Create Job Seeker Profile*
2. *Build Test Assets*
3. *Notify Job Selection*
4. *Generate Job Statistics*
5. *Generate Random Tests*
6. *Terms and Conditions*

|  |  |  |
| --- | --- | --- |
| *Goal-ID* | *Priority* | *Factors Addressed* |
| *1* | *1* | ***Create Job Seeker Profile*** |
| *Target Audience* | *Company, Jobseekers* |
| *Driver* | *To store the information of job seeker* |
| *Description* | *To obtain the details of job seeker* |
| *Response* | *To extract the information of job seeker* |
| *Open Issues* | 1. *Are the details about the jobseeker correct?* 2. *Is there any fake jobseeker profile?* 3. *How many jobseeker have applied?* |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Goal 1 Description:* | | | | |
| *SpecificTest* | | | | |
| *Is ‘What’ identifiable?* | *Is the ‘Why’ clear?* | *Can ‘Who’ be identified?* | *‘Where’ will it be performed?* | *‘Which’ resources are needed?* |
| *Jobseeker’s profile* | * *To collect the details* * *To maintain the details regarding job-seeker* | *Company who wants to recruit the Job-seekers* | *At the initial stage of recruitment process* | *The jobseeker’s profile collected at the input stage and some computer hardware to do processing.* |

|  |  |  |
| --- | --- | --- |
| *Goal 1 Description:* | | |
| *MeasurableTest* | | |
| *Is the end result quantifiable?* | *‘Figure’ of Measurement* | *Has the goal a clear end date/point?* |
| *Yes, it is necessary to create job profiles to maintain the details of jobseekers.* | * *Jobseekers data* * *Availability of jobseekers profile* | *Jobseeker can apply for the post in a certain time period decided by the company.* |

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| --- | --- | --- | --- |
| *Goal 1 Description:* | | | |
| *ATTAINABLETest* | | | |
| *What is your reaction to goal?* | *Does it feel realistic?* | *Is it overwhelming?* | *Do you find it motivating?* |
| *It is the first and main goal to initialize the recruitment process* | *At a glance, the goal seems to be realistic as we are collecting the details of the jobseekers.* | *Its feasibility is dependent on how well the model functions.* | *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 resources / budget to succeed?* |
| *The goal will help us to recruit the more appropriate candidate, which will help to progress of company.* | *Yes, Overall fit of the goal is the timing appropriate because for the recruitment process, details of the jobseekers is must.* | *To achieve the completion of this goal, the team will works on database system.* |

|  |  |  |
| --- | --- | --- |
| *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?* |
| *Jobseeker can apply for the post in a certain time period decided by the company.* | * *The focus is to collect details of jobseekers.* * *So that we can form the UI of the jobseeker.* | *It is the basic requirement for the recruitment system* |

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| --- | --- | --- |
| *Goal-ID* | *Priority* | *Factors Addressed* |
| *2* | *2* | ***Build Test Assets*** |
| *Target Audience* | *Job seeker* |
| *Driver* | *To test the knowledge of the candidate for the desired post* |
| *Description* | *Classifying and fetching the questions according to the area of working* |
| *Response* | *To get a most appropriate candidate for the desired post* |
| *Open Issues* | 1. *What variety of questions will be asked?* 2. *Are the questions testing the calibre of the jobseeker?* 3. *What are the various sections included in question set?* |

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| --- | --- | --- | --- | --- |
| *Goal 2 Description:* | | | | |
| *SpecificTest* | | | | |
| *Is ‘What’ identifiable?* | *Is the ‘Why’ clear?* | *Can ‘Who’ be identified?* | *‘Where’ will it be performed?* | *‘Which’ resources are needed?* |
| *To fetch proper questions for the online test* | *This goal will clearly help to find an appropriate candidate for the post.* | *The jobseekers will appear for the online test.* | *It will be performed on development machines.* | *Computer hardware will be required to do the processing* |

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| *Goal 2 Description:* | | |
| *MeasurableTest* | | |
| *Is the end result quantifiable?* | *‘Figure’ of Measurement* | *Has the goal a clear end date/point?* |
| *It is a quantifiable result as building proper questions will provide an appropriate candidate to the company.* | *It can be measured on the basis of the efficiency of the employee regarding the post* | *This goal must be accomplished before the announcement of the online test.* |

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| --- | --- | --- | --- |
| *Goal 2 Description:* | | | |
| *ATTAINABLETest* | | | |
| *What is your reaction to goal?* | *Does it feel realistic?* | *Is it overwhelming?* | *Do you find it motivating?* |
| *This is one of the important goals in the system to improve the efficiency of the recruitment system* | *The goal seems realistic the company will be involved with this goal* | *It is overwhelming to some extent although, the company will provide aim to the goal* | *It is motivating because it makes the system more capable of making the online test better.* |

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| *Goal 2 Description:* | | |
| *RELEVANTTest* | | |
| *Does it fit into the overall team / organization objective?* | *Taking overall fit is the timing appropriate?* | *Do you have sufficient resources / budget to succeed?* |
| *This forms the part of the creation of online test in a proper manner, which makes the test more efficient* | * *The goal aim is only to build assets for the online test.* * *So, it will be clearly fit into overall timing.* | *The resources we need are required before the online test is conducted* |

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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?* |
| *This goal must be accomplished before the commencement of the online test.* | *The focus of the goal is to create an online test which has questions regarding the job to be undertaken* | *This goal is important because it provides proper filtration of the candidates at the online test stage* |

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| --- | --- | --- |
| *Goal-ID* | *Priority* | *Factors Addressed* |
| *3* | *3* | ***Notify Job Selection*** |
| *Target Audience* | *Job seeker* |
| *Driver* | *To inform the candidates about their result (selected /not selected)* |
| *Description* | *To give time to time notifications about progress of selection process* |
| *Response* | *Announce the result of online test* |
| *Open Issues* | 1. *How will the jobseeker be informed about the result?* 2. *How to notify the jobseekers about the future updates?* 3. *Will the process of notification is up-to-date?* |

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| --- | --- | --- | --- | --- |
| *Goal 3 Description:* | | | | |
| *SpecificTest* | | | | |
| *Is ‘What’ identifiable?* | *Is the ‘Why’ clear?* | *Can ‘Who’ be identified?* | *‘Where’ will it be performed?* | *‘Which’ resources are needed?* |
| *To inform the candidate about the regular updates of the selection process* | *To notify the job seeker.* | *The jobseekers who will be apply for desired post* | *It will be performed by separate managing system in the software* | *Computer hardware will be required to do the processing* |

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| --- | --- | --- |
| *Goal 3 Description:* | | |
| *MeasurableTest* | | |
| *Is the end result quantifiable?* | *‘Figure’ of Measurement* | *Has the goal a clear end date/point?* |
| *It is quantifiable at the end the main purpose of the goal will be achieved* | *It can be measured on time period in which notifications will reach to the jobseeker* | *The goal is used for only notifications perspectives* |

|  |  |  |  |
| --- | --- | --- | --- |
| *Goal 3 Description:* | | | |
| *ATTAINABLETest* | | | |
| *What is your reaction to goal?* | *Does it feel realistic?* | *Is it overwhelming?* | *Do you find it motivating?* |
| *Formal way of communication.* | *It feels realistic because the goal follows the professional ethics.* | *No, because the aim behind the goal is to notify the jobseekers only.* | *Yes, because it is going to notify the job selector* |

|  |  |  |
| --- | --- | --- |
| *Goal 3 Description:* | | |
| *RELEVANTTest* | | |
| *Does it fit into the overall team / organization objective?* | *Taking overall fit is the timing appropriate?* | *Do you have sufficient resources / budget to succeed?* |
| *This forms a part of informing the jobseekers about the selection for the next round.* | *Yes, because the goal aim is only notify the selected candidate.* | *For notifications no special resources will be required.* |

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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?* |
| *The goal is used for only notifications perspectives* | *The focus of the goal is to inform the candidate about the recruitment process.* | *The goal is important for the recruitment process because it will time to time notify to the selector candidate.* |

|  |  |  |
| --- | --- | --- |
| *Goal-ID* | *Priority* | *Factors Addressed* |
| *4* | *4* | ***Generate Job Statistics*** |
| *Target Audience* | *Company* |
| *Driver* | *To get a clear picture of the company job statistics* |
| *Description* | *To mention the number of vacancies in the company* |
| *Response* | *To notify the current conditions of company to employee* |
| *Open Issues* | 1. *How many vacancies are available?* 2. *How many jobseekers applied for the available post?* 3. *What is the ratio of recruiting jobseekers per year for the company?* |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Goal 4 Description:* | | | | |
| *SpecificTest* | | | | |
| *Is ‘What’ identifiable?* | *Is the ‘Why’ clear?* | *Can ‘Who’ be identified?* | *‘Where’ will it be performed?* | *‘Which’ resources are needed?* |
| *To generate job statistics of the company* | *To give an idea of the number of employees who have been hired and for which post.* | *The company who is offering jobs to the job seekers* | *It will be performed on the company machines* | *The profiles of the jobseeker and the result of the online test which is conducted* |

|  |  |  |
| --- | --- | --- |
| *Goal 4 Description:* | | |
| *MeasurableTest* | | |
| *Is the end result quantifiable?* | *‘Figure’ of Measurement* | *Has the goal a clear end date/point?* |
| *The end result will be a collection of statistics accumulated during the online test procedure* | *The figure of measurement is the accuracy of the statistics of job availability* | *As all the data gets accumulated at the completion of the system, this goal will be completed* |

|  |  |  |  |
| --- | --- | --- | --- |
| *Goal 4 Description:* | | | |
| *ATTAINABLETest* | | | |
| *What is your reaction to goal?* | *Does it feel realistic?* | *Is it overwhelming?* | *Do you find it motivating?* |
| *The goal forms an important overview of the job selection for the company* | *This goal is completely based on the results achieved by the job seekers in the online test* | *The task has a lot of dependencies and will be tedious* | *Yes, because the company needs to know about its status* |

|  |  |  |
| --- | --- | --- |
| *Goal 4 Description:* | | |
| *RELEVANTTest* | | |
| *Does it fit into the overall team / organization objective?* | *Taking overall fit is the timing appropriate?* | *Do you have sufficient resources / budget to succeed?* |
| *This goal will help the company to form a summary of the entire job selection process.* | *Yes because it is one of the important part of the system to generate the statics.* | *The statistics need to be just displayed as part of this goal.* |

|  |  |  |
| --- | --- | --- |
| *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?* |
| *As all the data gets accumulated at the completion of the system, this goal will be completed.* | *The focus is to provide company with the job statistics.* | *This goal is not one of the very important goals, It displays the selection summary in an organized manner* |

|  |  |  |
| --- | --- | --- |
| *Goal-ID* | *Priority* | *Factors Addressed* |
| *5* | *5* | ***Generate Random Test*** |
| *Target Audience* | *Jobseeker* |
| *Driver* | *To create random test for jobseekers* |
| *Description* | *To check intelligence of candidate by creating questions* |
| *Response* | *Select the appropriate candidate for available post* |
| *Open Issues* | 1. *Are the jobseekers being tested on similar level of questions?* 2. *How will the plagiarism be avoided?* 3. *Which topic will be included at the time of generation of the test?* |

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| --- | --- | --- | --- | --- |
| *Goal 5 Description:* | | | | |
| *SpecificTest* | | | | |
| *Is ‘What’ identifiable?* | *Is the ‘Why’ clear?* | *Can ‘Who’ be identified?* | *‘Where’ will it be performed?* | *‘Which’ resources are needed?* |
| *Fetching proper questions for the online test* | *This goal will clearly help to find an appropriate candidate for the post.* | *The jobseekers will appear for the online test.* | *It will be performed on development machines* | *Computer hardware will be required to do the processing* |

|  |  |  |
| --- | --- | --- |
| *Goal 5 Description:* | | |
| *MeasurableTest* | | |
| *Is the end result quantifiable?* | *‘Figure’ of Measurement* | *Has the goal a clear end date/point?* |
| *Create record for number of job seekers selected for personal interview.* | *It can be measured on the basis of how many job seekers have qualified the exam.* | *Number of vacancies for the job seekers is the end point of this goal.* |

|  |  |  |  |
| --- | --- | --- | --- |
| *Goal 5 Description:* | | | |
| *ATTAINABLETest* | | | |
| *What is your reaction to goal?* | *Does it feel realistic?* | *Is it overwhelming?* | *Do you find it motivating?* |
| *This the most major building block for the whole recruitment process* | *Fetching questions and uploading them in the system can be done in fair amount of time.* | *To some extent, if the number of applicants are more than 1lakh then it is itself challenging.* | *This goal plays a crucial role in recruitment process hence it is motivating.* |

|  |  |  |
| --- | --- | --- |
| *Goal 5 Description:* | | |
| *RELEVANTTest* | | |
| *Does it fit into the overall team / organization objective?* | *Taking overall fit is the timing appropriate?* | *Do you have sufficient resources / budget to succeed?* |
| *This is crucial part of the recruitment system hence it covers the whole organization and also problem faced by it.* | * *The goal will use for formatting questionnaire and process test access.* * *So, it will be clearly fit into the system.* | *Resources needed will be the good set of questions to test the intelligence of the job seeker.* |

|  |  |  |
| --- | --- | --- |
| *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?* |
| *This is the end stage of recruitment process hence the good amount of applicants is the end of this step.* | * *The focus of this goal is to select the job seekers fit of the available vacancies.* * *So that next step of recruitment can be taken* | *This is the most important step to judge the intelligence and technical knowledge of the job seeker.* |

|  |  |  |
| --- | --- | --- |
| *Goal-ID* | *Priority* | *Factors Addressed* |
| *6* | *6* | ***Form the Project Joining Reports*** |
| *Target Audience* | *Job seeker, Company* |
| *Driver* | *To elaborate on minimum requirements for the desired post* |
| *Description* | *To describe the policies about the company* |
| *Response* | *To get overview of company* |
| *Open Issues* | 1. *What are the terms and conditions provided by the company?* 2. *What are the formal evidences received by the jobseeker after the selection?* 3. *How much time period is given to recruited candidate for joining the company?* |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Goal 6 Description:* | | | | |
| *SpecificTest* | | | | |
| *Is ‘What’ identifiable?* | *Is the ‘Why’ clear?* | *Can ‘Who’ be identified?* | *‘Where’ will it be performed?* | *‘Which’ resources are needed?* |
| *Overview of the company.* | *This goal will clearly help to understand the process.* | *The jobseekers will appear for the online test.* | *It will be performed at the time of joining the company.* | *Computer hardware will be required to do the processing.* |

|  |  |  |
| --- | --- | --- |
| *Goal 6 Description:* | | |
| *MeasurableTest* | | |
| *Is the end result quantifiable?* | *‘Figure’ of Measurement* | *Has the goal a clear end date/point?* |
| *Yes, because jobseeker can understand the policies of the company.* | *How well Jobseeker can adjust with the policies.* | *Yes, because it will apply at the last stage of the recruitment process.* |

|  |  |  |  |
| --- | --- | --- | --- |
| *Goal 6 Description:* | | | |
| *ATTAINABLETest* | | | |
| *What is your reaction to goal?* | *Does it feel realistic?* | *Is it overwhelming?* | *Do you find it motivating?* |
| *The goal describe the professionalism ethics of the company.* | *It feels realistic because it will shows the progress of company and its policies.* | *No, as it only describes the policies maintain by the company.* | *Yes, because it develops faith for the company.* |

|  |  |  |
| --- | --- | --- |
| *Goal 6 Description:* | | |
| *RELEVANTTest* | | |
| *Does it fit into the overall team / organization objective?* | *Taking overall fit is the timing appropriate?* | *Do you have sufficient resources / budget to succeed?* |
| *Yes, the goal is fit into overall team objective because the goal will mention the policies of company at the time of joining.* | *The goal is fit into overall timing because it will helps to follow the terms and conditions of the company expected from the jobseekers.* | *Yes, the team will have sufficient resources. Because the informal template of the joining report will be given by the company to the team.* |

|  |  |  |
| --- | --- | --- |
| *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?* |
| *Yes, because it will apply at the last stage of the recruitment process.* | *The focus of the goal is to clear the policies maintain by the company.* | *It is one of the important step in recruitment process because it explains the terms and conditions follow by the company.* |

# *FEATURE SET*

|  |  |
| --- | --- |
| *Feature-ID* | *Feature Description* |
| *1* | *Creates easy job opportunity as the system will be more reachable.* |
| *2* | *The online test will be fair and thus, will offer equal opportunity to its users.* |
| *3* | *Fast declaration of the result of the online test.* |
| *4* | *Easy way of providing the CV by uploading it.* |
| *5* | *The system will save the unnecessary cost which will be spent on the manual recruitment process.* |
| *6* | *To select most appropriate candidate for the desired post.* |
|  | *To check the feasibility and smartness of the candidate.* |

# *STAKEHOLDERS*

|  |  |  |  |
| --- | --- | --- | --- |
| *Manager* | *Handling all the activities, planning and executing the things properly* | *Key Player* | *Communicate test results and performance specifications. Provide frequent status reports and updates.* |
| *Project Leader* | *Performing allocated duties, maintaining records* | *Minimal Effort* | *Obtain feedback on customer requirements or any changes* |
| *Project Co-ordinator* | *Observing vehicle condition, Deciding the requirement of the repair on the basis of vehicle condition, keeping vehicle information* | *Minimal Effort* | *Communicate applicable resource requirements early and ensure resources are released back to engineering when they’re no longer required* |
| *Trade Union* | *Determining staff duties, Monitoring buses* | *Key Player* | *Solicit stakeholder as member of steering committee and obtain feedback on project planning. Frequent communication and addressing concerns are imperative* |
| *Tester,*  *Jobseekers* | *Ensures smooth functionality of the system.* | *Key Player* | *Manages project as required* |
| *Management team* | *Ensuring on time delivery of materials and keeping track of the software.* | *Keep Status* | *Communicate project schedule and material requirements ahead of time to ensure delivery* |
| *Design team* | *Associate City Transport Assistant* | *Keep Informed* | *Allow technical staff to work with stakeholder to answer questions and address concerns and provide test results for validation* |

# *ACCEPTANCE CRITERIA*

*This is the deliverance acceptance report:*

|  |  |  |
| --- | --- | --- |
| *Item* | *Concerns* | *Accepted / Rejected* |
| *Vision Definition* | *To create a platform for the Jobseekers.* | *Accepted* |
| *Mission Definition* | *To generate the opportunities for the Jobseekers.* | *Accepted* |
| *Goals* | *Most appropriate candidate for the available vacancy.* | *Accepted* |
| *Feature Definitions* | *To check the feasibility the candidate.* | *Accepted* |
| *Deliverables definition* | *Give time to time updates of the system to company.* | *Accepted* |

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

**CS 303: Software Engineering Laboratory**

Assignment No: 3

**Fresher’s Recruitment System**

**System Requirement Specification**

**03-09-2017**

**Version 1.0**

|  |  |  |  |
| --- | --- | --- | --- |
| Project Group Information | | | |
| Roll. No. | **Gr. No.** | **Name** | **Roles** |
| 36 | **151373** | **Revati Lachyan** | **Job seeker** |
| 38 | **151745** | **Neel Vyawahare** | **Job seeker** |
| 43 | **151762** | **Kshitij Yadav** | **Company Manager** |

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

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

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# INTRODUCTION

*This provides an overview of the entire information described in SRS. This involves purpose and the scope of SRS, which states the functions to be performed by the system. In addition, it describes definitions, abbreviations, and the acronyms used. The references used in SRS provide a list of documents that is referenced in the document*

|  |  |
| --- | --- |
| Item | Description |
| Purpose | *The purpose of this document is to present a detailed description of* ***Fresher’s Recruitment System****. It will explain the purpose and features of the system, what the system will do, the constraints under which it must operate and how the system will react to external stimuli.* |
| Audiences | *Jobseekers* |
| SRS Scope | *This system will be a fresher’s recruitment system for organization. This project is aimed at developing a recruitment system that is important to either an organization.* |
| Project Scope | *‘****Fresher’s Recruitment System’*** *will be made to only provide fair chance to all the jobseekers for various posts.* |

**References:**

1. *Statement of Work*
2. *Feature Set*
3. *Company*.

# TERMS OF REFERENCE

|  |  |
| --- | --- |
| 1. ***Background*** | 1. *To make the recruitment process easy.* 2. *In ‘Fresher’s Recruitment System’, authorised users are graduates and post-graduates* 3. *Area of working is ethical security, coding, designing and testing.* 4. *‘Job Recruitment System’ can reach out to more job seekers to find perfect candidate for the company.* |
| 1. ***Objectives*** | 1. *The objective of ‘Fresher’s Recruitment System’ is to provide perfect platform for jobseekers.* 2. *By this proposal, company and jobseekers can save their time easily.* 3. *To save the unnecessary expenditure of the company* 4. *Generate job statistics for the company* |
| 1. ***Issues*** | 1. *Proving relevance to internal and external stakeholders.* 2. *Output of the system on the stakeholders.* 3. *How the system will affect the internal and external stakeholders.* 4. *The sustainability depends on the acceptance of the system by the stakeholders.* |
| 1. ***Methodology*** | 1. *For completion of the work under the resulting contract, the work of system will be subdivided in the team members of the team. Designing of the system by using web language create a front end of the system.* 2. *After that data collection, data analysis as well as validation of that data will take place so that it can be easily handle by company’s administration.* 3. *Designing of integrate system and the back end of the system will be formed simultaneously with the data operations.* 4. *Immediately after, the preview of the system will show to the company and their feedback about the system will take in considerations.* 5. *At the final stage, the delivery of proposed system will take place.* |
| 1. ***Expertise*** | 1. *The type of work involved in the system is easily accessible UI development.* 2. *The type of skills and abilities required for the system is to know the knowledge about database, web designing language, etc.* 3. *The 3 students from TY\_C is involved in the development of the system* 4. *The period of engagement of each team member is roughly 4 to 5 month* |
| 1. ***Reporting*** | 1. *Reports inform time to time progress of the system to the company.* 2. *The timely report will give to the company as per the schedule of the deliverables.* 3. *The computer software program’s to be used for report writing is Microsoft world.* 4. *The people responsible for reporting and approving are the members of the team and authority of the company.* 5. *The timely report card will give to the leader, authority of the company and managing director of the company.* |
| 1. ***Work plan*** | 1. *The anticipated work will give with the report card.* 2. *The finance resources allocated to the system will divide in the 3 categories in the form of the cash. One will be at the initial stage, 2nd will be in the middle one and the last payment after the delivery of the system.* |
| ***8. Technical Terms*** | *a. Job Seeker- A person who is unemployed and searching for work*  *b. Administrator- Administrator is a person whose job involves helping to*  *organize and supervise the way that an organization or institution functions.*   1. *Company- It is a place where many person work together.*   *d. CV- CV is an abbreviation for Curriculum Vitae.  If a job*  *advertisement asks for a CV, that is a hint that the employer expects a*  *great deal of life experience and accomplishments, including ,education,*  *original research, presentations you have given and papers or books you*  *had published.*  *e. Statistics- A brief overview of the company in the form of a graph*  *f. Aptitude Test- A test designed to determine a person ability in a particular skill*  *or Field of knowledge.* |

# PROBLEM DESCRIPTION

|  |  |
| --- | --- |
| The problem of | To create and maintain the data of the jobseekers |
| Affects | *Jobseekers, company* |
| The impact of which is | *The impact of the problem occurs at the time of redundancy details of the jobseekers.* |
| A successful solution would | *To avoid the problem each candidate can register once from its mobile number and email-id. So the system can control on the fake-id and it will helps at the time of data maintain.* |

|  |  |
| --- | --- |
| For | *Company* |
| Who | *Jobseekers* |
| The ‘Treatment Advisor’ | *Vacancy system of the company* |
| That | *Determine the appropriate candidate in very less time period* |
| Unlike | *Manual process of the recruitment* |
| Our product | Try to give accuracy in the process. |

# FUNCTIONAL HIERARCHY

|  |  |  |  |
| --- | --- | --- | --- |
| Goal-ID | 1 | Create Job-seekers Profile | Description |
| *Objective ID* | 1 | *Create Job-seeker Profile* |  |
| *Process ID: 1* | *Collect Job Seeker Data.* |
| *Process ID: 2* | *Preserve collected Data.* |
| *Objective ID* | 2 | *Store Job-seeker Data* |  |
| *Process ID: 1* | *Access Stored Data* |
| *Process ID: 2* | *Filter Eligible Candidates* |

|  |  |  |  |
| --- | --- | --- | --- |
| Goal-ID | 2 | Build Test Assets | Description |
| *Objective ID* | 1 | *Collect Questions* |  |
| *Process ID: 1* | *Collect Question Set.* |
| *Process ID: 2* | *Decide Job Criteria* |
| *Objective ID* | 2 | *Select Questions* |  |
| *Process ID: 1* | *Filter Question Set.* |
| *Process ID: 2* | *Select Suitable Questions.* |

|  |  |  |  |
| --- | --- | --- | --- |
| Goal-ID | 3 | Notify Job Selectors | Description |
| *Objective ID* | 1 | *Test Result* |  |
| *Process ID: 1* | *Declare Test Result* |
| *Process ID: 2* | *Select Eligible Candidate* |
| *Objective ID* | 2 | *Future Updates* |  |
| *Process ID: 1* | *Trace Later Stages* |
| *Process ID: 2* | *Future Vacancy Report* |

# 

|  |  |  |  |
| --- | --- | --- | --- |
| Goal-ID | 4 | Create Job Statics | Description |
| Objective ID | 1 | *Job Statistics Report* |  |
| *Process ID: 1* | *Current Job Statistics* |
| *Process ID: 2* | *Available Vacancies* |
| Objective ID | 2 | *Examine Test Result* |  |
| *Process ID: 1* | *Notify job seeker* |
| *Process ID: 2* | *Examine result statistics* |

|  |  |  |  |
| --- | --- | --- | --- |
| Goal-ID | 5 | Generate Random Test | Description |
| *Objective ID* | 1 | *Format Questionnaire* |  |
| *Process ID: 1* | *Acquire Test Questionnaire.* |
| *Process ID: 2* | *Perform Question Optimization* |
| *Objective ID* | 2 | *Process Test Assets* |  |
| *Process ID: 1* | *Distribute Test Questionnaire* |
| *Process ID: 2* | *Launch Test* |

|  |  |  |  |
| --- | --- | --- | --- |
| Goal-ID | 6 | Terms And Conditions | Description |
| *Objective ID* | 1 | *Apply Job Terms* |  |
| *Process ID: 1* | *Acquire Terms And Condition Information* |
| *Process ID: 2* | *Build Terms Matrix* |
| *Objective ID* | 2 | *Create Joining Profile* |  |
| *Process ID: 1* | *Distribute Terms-Condition Report* |
| *Process ID: 2* | *Process Client Report* |

# USER INTERFACES

***5.1*** *Abbreviated UI, it is the junction between a user and a computer program. An interface is a set of commands or menus through which a user communicates with a program. A command-driven interface is one in which you enter commands. A menu-driven interface is one in which you select command choices from various menus displayed on the screen.*

*The user interface is one of the most important parts of any program because it determines how easily you can make the program do what you want. A powerful program with a poorly designed user interface has little value. Graphical user interfaces (GUIs) that use windows, icons, and pop-up menus have become standard on personal computers.*

*GUI is a program interface that takes advantage of the computer's graphics capabilities to make the program easier to use. Well-designed graphical user interfaces can free the user from learning complex command languages. On the other hand, many users find that they work more effectively with a command-driven interface, especially if they already know the command language.*

*Graphical user interfaces, such as Microsoft Windows and the one used by the Apple Macintosh, feature the following basic components:*

* *Pointer: A symbol that appears on the display screen and that you move to select objects and commands. Usually, the pointer appears as a small angled arrow. Text -processing applications, however, use an I-beam pointer that is shaped like a capital I.*
* *Pointing device: A device, such as a mouse or trackball that enables you to select objects on the display screen.*
* *Icons: Small pictures that represent commands, files, or windows. By moving the pointer to the icon and pressing a mouse button, you can execute a command or convert the icon into a window. You can also move the icons around the display screen as if they were real objects on your desk.*
* *Desktop: The area on the display screen where icons are grouped is often referred to as the desktop because the icons are intended to represent real objects on a real desktop.*
* *Windows: You can divide the screen into different areas. In each window, you can run a different program or display a different file. You can move windows around the display screen, and change their shape and size at will.*
* *Menus: Most graphical user interfaces let you execute commands by selecting a choice from a menu.*

*In addition to their visual components, graphical user interfaces also make it easier to move data from one application to another. A true GUI includes standard formats for representing text and graphics. Because the formats are well-defined, different programs that run under a common GUI can share data. This makes it possible, for example, to copy a graph created by a spreadsheet program into a document created by a word processor.*

*5.2 Characteristics of Successful User Interfaces*

* ***Clear****: Clarity is the most important element of user interface design. Indeed, the whole purpose of user interface design is to enable people to interact with your system by communicating meaning and function. If people can’t figure out how your application works or where to go on your website they’ll get confused and frustrated.*
* ***Concise****: Clarity in a user interface is great, however, you should be careful not to fall into the trap of over-clarifying. It is easy to add definitions and explanations, but every time you do that you add mass. Your interface grows. Add too many explanations and your users will have to spend too much time reading through them. Keep things clear but also keep things concise. When you can explain a feature in one sentence instead of three, do it. When you can label an item with one word instead of two, do it. Save the valuable time of your users by keeping things concise. Keeping things clear and concise at the same time isn’t easy and takes time and effort to achieve, but the rewards are great.*
* ***Familiar****: Many designers strive to make their interfaces ‘intuitive’. But what does intuitive really mean? It means something that can be naturally and instinctively understood and comprehended. But how can you make something intuitive? You do it by making it ‘familiar’. Familiar is just that: something which appears like something else you’ve encountered before. When you’re familiar with something, you know how it behaves – you know what to expect. Identify things that are familiar to your users and integrate them into your user interface.*
* ***Responsive****: Responsive means a couple of things. First of all, responsive means fast. The interface, if not the software behind it, should work fast. Waiting for things to load and using slaggy and slow interfaces is frustrating. Seeing things load quickly, or at the very least, an interface that loads quickly (even if the content is yet to catch up) improves the user experience. Responsive also means the interface provides some form of feedback. The interface should talk back to the user to inform them about what’s happening. Have you pressed that button successfully? How would you know? The button should display a ‘pressed’ state to give that feedback.*
* ***Consistent****: Consistent interfaces allow users to develop usage patterns – they’ll learn what the different buttons, tabs, icons and other interface elements look like and will recognize them and realize what they do in different contexts. They’ll also learn how certain things work, and will be able to work out how to operate new features quicker, extrapolating from those previous experiences.*
* ***Attractive****: This one may be a little controversial but I believe a good interface should be attractive. Attractive in a sense that it makes the use of that interface enjoyable. Yes, you can make your UI simple, easy to use, efficient and responsive, and it will do its job well – but if you can go that extra step further and make it attractive, then you will make the experience of using that interface truly satisfying. When your software is pleasant to use, your customers or staff will not simply be using it – they’ll look forward to using it. There are of course many different types of software and websites, all produced for different markets and audiences. What looks ‘good’ for any one particular audience will vary. This means that you should fashion the look and feel of your interface for your audience. Also, aesthetics should be used in moderation and to reinforce function. Adding a level of polish to the interface is different to loading it with superfluous eye-candy.*
* ***Efficient****: A user interface is the vehicle that takes you places. Those places are the different functions of the software application or website. A good interface should allow you to perform those functions faster and with less effort. Now, ‘efficient’ sounds like a fairly vague attribute – if you combine all of the other things on this list, surely the interface will end up being efficient? Almost, but not quite. What you really need to do to make an interface efficient is to figure out what exactly the user is trying to achieve, and then let them do exactly that without any fuss.*
* ***Forgiving****: Nobody is perfect, and people are bound to make mistakes when using your software or website. How well you can handle those mistakes will be an important indicator of your software’s quality. Don’t punish the user – build a forgiving interface to remedy issues that come up. A forgiving interface is one that can save your users from costly mistakes. For example, if someone deletes an important piece of information, can they easily retrieve it or undo this action? When someone navigates to a broken or non-existent page on your website, what do they see? Are they greeted with a cryptic error or do they get a helpful list of alternative destinations?*

|  |  |  |  |
| --- | --- | --- | --- |
| *UI-ID* | *UI Name* | *Type* | *Scope* |
| 1 | *Collect Jobseekers Data* | *Form* | *The details of the jobseekers are recorded* |
| 2 | *Store the Collect Data* | *Input* | *These details of the jobseeker are stored in the database for company’s record* |
| 3 | *Access Store Data* | *Navigation* | *The academic achievements are taken into consideration during the job recruitment* |
| 4 | *Next Stage Usage* | *NL* | *All the information is important for selecting a candidate for the next round* |
| 5 | *Select Proper Questions Set* | *Command* | *The questions for the online test should maintain an appropriate difficulty level* |
| 6 | *Filter Questions Bank* | *Command* | *The question set should have variety of questions to check knowledge required for the post* |
| 7 | *Filter Question Set* | *Command* | *Even though a random test is conducted, every candidate should receive a similar level of testing* |
| 8 | *Sort Selected Question* | *NL* | *The questions, before putting in the test, should be sorted according to the difficulty level* |
| 9 | *Declare Test Result* | *Navigation* | *The results would be declared personally to every jobseeker* |
| 10 | *Candidate Selection* | *NL* | *The results of the first stage of selection is the online test* |
| 11 | *Next Stage Update* | *Navigation* | *All the details regarding the selection process stages will be delivered to the selected candidates* |
| 12 | *Future Vacancy Report* | *Form* | *This provides to the company, total number of vacancies in the company* |
| 13 | *Company Job Statistics* | *Form* | *The job statistics provide a concise picture of the job allotment* |
| 14 | *Available Vacancies* | *NL* | *The vacancies available in the company, then will be conveyed to the new jobseekers* |
| 15 | *Company Related Notifications* | *Command* | *All the important notices will be conveyed to the jobseeker* |
| 16 | *Eligible Candidates* | *Input* | *The candidates who will clear the online test according to the criteria will be the eligible candidates for the next round* |
| 17 | *Acquire Test Questionnaire* | *Navigation* | *The questions will be decided by the knowledgeable team in the company* |
| 18 | *Perform Question Optimization* | *Navigation* | *Appropriate type of questions should be asked to the jobseekers to provide a good candidate for the post* |
| 19 | *Distribute Test Questionnaire* | *Command* | *The questions should be provided to the candidates who appear for the online test* |
| 20 | *Launch Test* | *Navigation* | *The questions are to be answered by the candidates as a stepping stone to the main selection* |
| 21 | *Acquire Terms and Condition Info.* | *Command* | *The terms and conditions are given by the company, required for the job* |
| 22 | *Build Terms Matrix* | *Navigation* | *The terms matrix provides the terms and conditions of the company in a concise manner* |
| 23 | *Distribute Terms and Condition Report* | *Command* | *The terms and conditions are given by the company to the selected candidates before joining the job* |
| 24 | *Process Client Report* | *Navigation* | *The report is accepted by the selected candidate and thus, can formally accept the post* |

# HARDWARE INTERFACES

Minimum requirements:

|  |  |
| --- | --- |
| Hardware | Requirement |
| *Processor* | *Intel Core i7* |
| *RAM* | *2 GB* |
| *Server Side Technology* | *ASP* |
| *Client Side Technology* | *Java-Script* |
| *External Devices* | *NA* |

# SOFTWARE INTERFACES

|  |  |
| --- | --- |
| Profile | Description |
| *Front-end Capabilities* | *Browser, HTML 5 support* |
| *Back-end Capabilities* | *PHP* |
| *Programming Languages* | *CSS, BOOTSTRAP* |
| *Operating Environment* | *Windows XP* |
| *Software Platform* | *Browser* |
| *Database Servers* | *MySQL* |
| *Framework Resources* | *Images* |
| *API (If Any)* | *NA* |
| *Other Services/Resources* | *NA* |
| *Communication Interfaces* | *E-mail* |

# LOGICAL DATABASES

|  |  |  |
| --- | --- | --- |
| Database Name | Parameter | Scope |
| *Job seeker basic* | *Candidate ID, Name, Age, Address, email Id* | *Input data* |
| *Job seeker attributes* | *Candidate ID, years of experience, academics achievements* | *Input data* |
| *Job* | *Post ID, Salary, Hours of work* | *Updatable data* |
| *Online test* | *Test ID, time, subjects* | *Updatable data* |

# NON-FUNCTIONAL REQUIREMENTS

* *Reliability: This system will aim at providing consistent results, even during concurrent access of the system*
* *Availability: The system shall allow users to restart the application after failure with the loss of at most 10 characters of input.*
* *Security: The server on which the database resides will have its own security to prevent unauthorized write/delete access.*
* *Proper authentication is needed to access the database.*
* *The system administrator has given full access permissions.*
* *The database access should be password protected.*
* *The deployment system must be secure to avoid any harmful changes to the application*
* *Maintainability: The system will have a reliable database system which will store the data properly.*
* *Portability: The system is portable because of Java as a development language, only java runtime environment is needed on operating system.*
* *Correctness – The system will help the company to conduct the first stage of the recruitment process.*
* *Efficiency - amount of computing resources 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 to learn, operate, prepare input, and interpret output*

*Once the relevant characteristics are selected, a subsection should be written for each, explaining the rationale for including this characteristic and how it will be tested and measured. A chart like this might be used to identify the key characteristics (rating them High or Medium), then identifying which are preferred when trading off design or implementation decisions (with the ID of the preferred one indicated in the chart to the right). The chart below is optional (it can be confusing) and is for demonstrating trade-off analysis between different non-functional requirements. H/M/L is the relative priority of that non-functional requirement.*

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

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

**CS 303: Software Engineering Laboratory**

Assignment No: 4

**Fresher’s Recruitment System**

**Feasibility Study Report**

***20-09-2017***

***Version 1.0***

|  |  |  |  |
| --- | --- | --- | --- |
| Project Group Information | | | |
| Roll. No. | **Gr. No.** | **Name** | **Roles** |
| 36 | **151373** | **Revati Lachyan** | **Job Seeker** |
| 38 | **151745** | **Neel Vyawahare** | **Job Seeker** |
| 43 | **151762** | **Kshitij Yadav** | **Company Manager** |

**Approved By: Mahesh R. Dube**

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

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| ***3*** | ***Technology Considerations*** | ***4*** |
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| ***5*** | ***References*** | ***5*** |

# 1. INTRODUCTION

***”Fresher's Recruitment System”*** *is the process of jobseekers recruitment using internet.*

*Companies and recruitment agents have moved much for their recruitment process online so as to improve the speed by which jobseekers can be matched with live vacancies. Using database technologies job seekers can now fill posts in a previously possible. Fresher's recruitment system is the use of technology to assist the recruitment process.*

|  |  |
| --- | --- |
| Item | Description |
| *Scope of Study* | ***“Fresher’s Recruitment System”*** *will be made to only provide fair chance to all the jobseekers for various posts.* |
| *Audiences* | 1. *Company Manager* 2. *Jobseekers* 3. *Company HR* |
| *Project Type* | *Medium scale, as the website provides satisfactory data and also available everywhere.* |
| *Platform Details* | *The software platform of the system for front end is*   1. *HTML* 2. *CSS* 3. *Bootstrap* 4. *PHP* |

# 2. DESCRIPTION OF SERVICES

*This service saves company and jobseekers time easily. This services provides information about the vacancies in the company and minimum qualifications required for the post.*

|  |  |  |  |
| --- | --- | --- | --- |
| Service -ID | Service Name | Audience | Scope |
| *S-1* | *Create job seeker profile* | *Company* | *To collect the details of the jobseekers for understanding overall qualifications and achievements* |
| *S-2* | *Online test* | *Jobseeker* | *To make a set of questions with mixed level of difficulty. This will make the system unbiased.* |
| *S-3* | *Notification* | *Jobseeker* | *To inform the jobseekers whether they are promoting for the next round or not.* |
| *S-4* | *Uploading CV* | *Company* | *To get a clear picture of the jobseeker’s qualification* |
| *S-5* | *Create joining report* | *Company* | *To inform the jobseeker about the terms and conditions of the company.* |
| *S-6* | *Discussion Forum* | *Jobseeker* | *To clear the doubts regarding the job selection process and terms and conditions of company.* |

# 3. TECHNOLOGY CONSIDERATIONS

|  |  |  |
| --- | --- | --- |
| Current Technology | | |
| Type | **Parameter** | **Description** |
| *Hardware* | *Server* | *Server is required to host the system.* |
|  | *ROM* | *To store the details of jobseeker.* |
|  | *RAM* | *The system will run on 256MB or higher.1* |
| *Software* | *Framework* | *The system interface will be developed by using CSS Bootstrap framework.* |
|  | *Scripting language* | *The system will use JQuery as a scripting language.* |
|  | *Database* | *The system will use MySQL for database management.* |
|  | *Browser* | *Google Chrome* |

|  |  |  |
| --- | --- | --- |
| Deployment Technology | | |
| Type | **Parameter** | **Description** |
| *Software* | *Browser* | *Mozilla or Chrome* |
|  | *Support* | *HTML5, CSS, BOOTSRAP, JavaScript, jQuery* |
| *Hardware* | *Device* | *Desktop, Laptop, Tablet, Mobile* |
|  | *Screen* | *Screen with minimum 1024×576 resolution* |

# 4. FEASIBILITY STUDY RESULTS

|  |  |  |  |
| --- | --- | --- | --- |
| Option | Outcome | Ranking | Discussion |
| *Acquire job seeker data* | *Expected* | H | *-Data is acquired successfully.*  *-Data acquired is successfully accessed.*  *-Data is differentiated according to the available post requirements.* |
|  | *Unexpected* | L | *-Accessed data was difficult to handle.*  *-Data handling was difficult as the number of applicants were large in number.* |
| *Correctness of data* | *Expected* | M | *-Jobseekers data is correct.*  *-Jobseekers information is available in the right format.*  *-Jobseekers information is validated from its authorized documents.* |
|  | *Unexpected* | M | *-Information isn’t in proper format.*  *-If few pieces of data is missing/incorrect, it can be replaced with an average value.* |
| *Generate questionnaire* | *Expected* | H | *-Questions with varying difficulty levels were collected.*  *-Differentiate questions according to difficulty level.*  *-Random test is trying to analyse overall knowledge of jobseekers.* |
|  | *Unexpected* | L | *-Questions were either too easy or too difficult.*  *-Due to random test generation, jobseeker may face the question which is not related to its domain.* |
| *Notify jobseeker* | *Expected* | H | *-The job seekers are properly informed about the result.*  *-Job seekers are also informed about future updates.*  *-Selected candidates also get time to time updates about the recruitment process.* |
|  | *Unexpected* | L | *-Unable to contact all the job seekers.*  *-Notified information about the process may be wrong.*  *-Receiving notifications may be delayed due to unspecified reasons.* |

# 5. REFERENCES

*A. Statement of Work*

*B. Feature Set*

*C. System Requirement Specifications*

*D. zoho.com*

*E. monster.com*

*F. naukari.com*

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

**CS 303: Software Engineering Laboratory**

Assignment No: 5

**Fresher’s Recruitment System**

**Project Plan Outline**

***27-09-2017***

***Version 1.0***

|  |  |  |  |
| --- | --- | --- | --- |
| Project Group Information | | | |
| Roll. No. | **Gr. No.** | **Name** | **Roles** |
| 36 | **151373** | **Revati Lachyan** | **Job Seeker** |
| 38 | **151745** | **Neel Vyawahare** | **Job Seeker** |
| 43 | **151762** | **Kshitij Yadav** | **Company Manager** |

**Approved By: Mahesh R. Dube**

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

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| *3* | *Work Breakdown Structure* | *4* |
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| *5* | *Activity Register* | *5* |
| *6* | *Task Prioritization* | *6* |
| *7* | *Risk Register* | *7* |

# 1. INTRODUCTION

*The proposed system is aimed at creating recruitment system for the company. One can easily understand from title that it is used by jobseekers only. This system will create a platform for jobseeker to get good job opportunity for their bright career in a convenient manner.*

|  |  |
| --- | --- |
| Deliverables | Benefits |
| *Statement of Work* | *Analyse the skeleton of the system* |
| *Feature set of the system* | *To get the idea of vision, mission and goals of the system.* |
| *System Requirement Specifications* | *To get a clear picture of what needs to be done to develop the system* |
| *Feasibility Study* | *To get a descriptive idea about the requirements of the system.* |

# 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 also 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 September 2017* |
| *Designing* | *Elaboration* | *Create reference model of the system* | *11th October 2017* |
| *Development* | *Construction* | *Developing the system using suitable languages* | *20th October 2017* |
| *Testing* | *Construction* | *Finding and rectifying the defects in the system.* | *20th November 2017* |
| *Product Release* | *Transition* | *Launching the working product* | *1st December 2017* |
| *Feedback* | *Transition* | *Taking feedback from the customers* | *8th December 2017* |

# 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 |
| *Product Backlog* | *User Stories and basic about systems* | *Weekly* | *In Document* | *Product Owner, Scrum Master, Team Members* | *Status Repost* | *Product Owner* |
| *Sprint Prioritization Meeting* | *Priority about the tasks of system* | *Weekly* | *In Document* | *Scrum Master, Team Members* | *Updated Action Register* | *Scrum Master* |
| *Weekly Status Report* | *Email summary of project status* | *Weekly* | *Email* | *Project Sponsor, Team and Stakeholders* | *Status Report* | *Project Manager* |
| *Weekly Project Team Meeting* | *Meeting to review action register and status* | *Weekly* | *In Person* | *Project Team* | *Updated Action Register* | *Project Manager* |
| *Project Monthly Review (PMR)* | *Present metrics and status to team and sponsor* | *Monthly* | *In Person* | *Project Sponsor, 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 Person* | *Project Sponsor, Team and Stakeholders* | *Phase completion report and phase kick-off* | *Project Manager* |
| *Technical Design Review* | *Review of any technical designs or work associated with the project* | *As Needed* | *In Person* | *Project Team* | *Technical Design Package* | *Project Manager* |

# 5. ACTIVITY REGISTER

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

# 6. TASKS PRIORITAZATION

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***Task is of high importance, with high urgency factor.***  *Must be done today & 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*** | 1. ***Collect vacancy statistics.*** 2. ***Documentation initiation*** 3. ***Collect questions for test*** | 1. ***Generate random test.*** 2. ***Sort questions according to difficulty level.*** 3. ***Conduct test.*** |
| ***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*** | 1. ***Notify jobseekers.*** 2. ***Declare result of the test.*** | 1. ***Generation of statistics*** 2. ***Terms and conditions of the company.*** | ***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.* |

# 7. RISK REGISTER

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Risk Description** | **Likely Cause of Risk Occurring** | **Effect on Project** | **Phase Affected** | ***Severity Level*** | **Ability to Detect** | **Risk Rank** |
| ***1*** | ***job statistics not correct*** | ***inadequate knowledge of available vacancies*** | ***failure to predict the available vacancies*** | ***job-seeker profile creation*** | ***High*** | ***Moderate*** | ***Serious*** |
| ***2*** | ***collected questions not related to field of vacancy*** | ***wrong selection of questions*** | ***job seeker selection will be affected*** | ***generate random test*** | ***High*** | ***Complex*** | ***Critical*** |
| ***3*** | ***answer key not correct*** | ***wrong answer present with the evaluator*** | ***job seeker selection will be affected*** | ***declare result*** | ***High*** | ***Complex*** | ***Critical*** |
| ***4*** | ***Miss Interpretation of terms and conditions*** | ***wrong understanding of terms and conditions*** | ***Selected candidate will not be satisfied*** | ***Recruitment phase*** | ***High*** | ***Moderate*** | ***Serious*** |
| ***5*** | ***Redundancy in jobseekers information*** | ***Same name or any other personal information about jobseekers*** | ***wrong selection of candidate*** | ***Recruitment phase*** | ***High*** | ***Complex*** | ***Serious*** |
| ***6*** | ***late notification of result*** | ***delay in test result declaration*** | ***delay in job seeker selection*** | ***notify job selection*** | ***High*** | ***Easy*** | ***Modest*** |

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

**CS 303: Software Engineering Laboratory**

Assignment No: 6

**Fresher’s Recruitment System**

**Project Backlog**

***11-10-2017***

*!!br0ken!!****Version 1.0***

|  |  |  |  |
| --- | --- | --- | --- |
| Project Group Information | | | |
| Roll. No. | **Gr. No.** | **Name** | **Roles** |
| 36 | **151373** | **Revati Lachyan** | **Job Seeker** |
| 38 | **151745** | **Neel Vyawahare** | **Job Seeker** |
| 43 | **151762** | **Kshitij Yadav** | **Company Manager** |

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

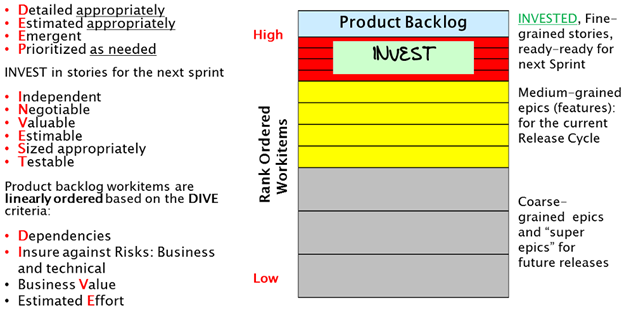
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# 1. INTRODUCTION

*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.*

* ***Detailed appropriately****: Work-items in the backlog are specified at an appropriate level of detail.*
* ***Estimated appropriately****: Work-items in the product backlog are estimated appropriately.*
* ***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.*
* ***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 top red-color region. A ready-ready story has already been analyzed with clear definition (User Role, Functionality, and Business Value) and associated 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 also 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 also 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 also be in time units (such as ideal staff-hours or staff-days for the whole team). Thus, stories are estimated in story points, and also 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.*

*Large 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.*

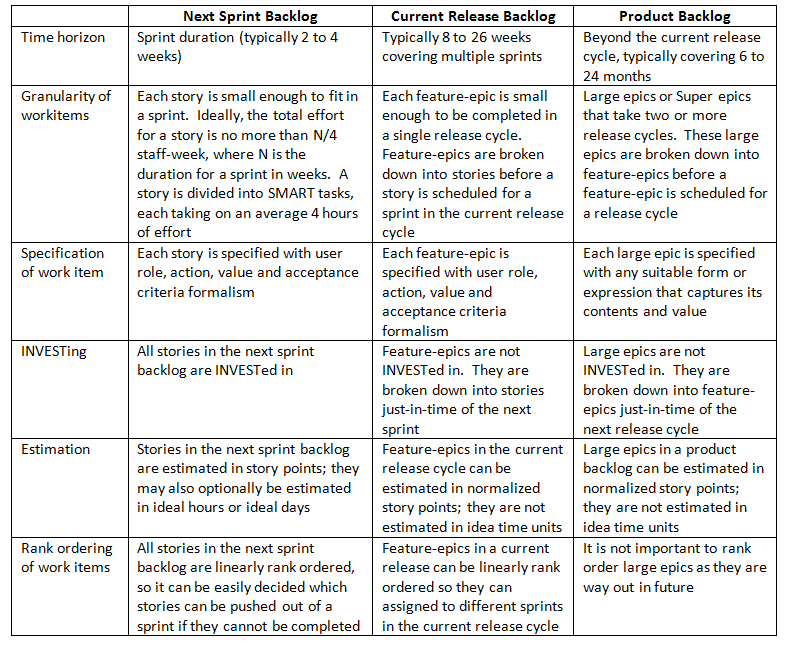
*DIVE the product backlog carefully*

*There is rarely enough time or resources 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-candy-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 also an acronym. Product backlog items should be linearly ordered based on the DIVE criteria, which requires careful consideration of all four factors captured in the DIVE acronym:*

* *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.*
* *Insure against Risks: Business as well as technical risks*
* *Business Value*
* *Estimated Effort*



# 5. PRODUCT BACKLOG: GOALS GRANURALITY

|  |  |
| --- | --- |
| Goal-ID-1 | Create Jobseekers profile |
| Purpose | To create the job seeker profile so that we can store the information of jobseeker .It is useful for the company to validate the data of jobseeker. Also, it is used to avoid fake jobseeker profile. |
| Target Audience | Jobseeker |
| Status | On-going |
| Task Description | 1.To create a UI for jobseeker profile |
|  | 2. To validate the information of jobseeker |
|  | 3. To verify the documents of jobseeker |
|  | 4. If any fake document is found, the application will be discarded |
|  | 5. To create database as per the provided information |
|  | 6. To get the total count of interested jobseekers |
|  | 7. To check the field of interest of jobseekers and sort them accordingly |
|  | 8. As per the criterion of the desired post provided by the company, the system will check the criterion for every applicant |
|  | 9. It is mandatory for all applicants to fill the necessary information given in the form |
|  | 10. It is useful company for filtration of the candidates |

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| Goal-ID-2 | Build Test Assets |
| Purpose | By creating a variety of questions, company can check the knowledge and excellence of the jobseeker in different fields. It is one of the parameters to check the capabilities of the jobseeker for the desired post |
| Target Audience | Job seeker, company recruitment department |
| Status | On-going |
| Task Description | 1. To test the knowledge of the candidate for the desired post |
|  | 2.To collect a variety of questions as per the job requirement |
|  | 3. To sort the questions according to difficulty level |
|  | 4. To prepare a questionnaire for the test |
|  | 5. To verify the questions asked in the test |
|  | 6. To discuss the marking scheme with the company |
|  | 7. To check the excellence level of the candidate for the desired post |
|  | 8. To maintain different time slots convenient for both company and applied candidate |
|  | 9.Maintain time limit for the online test |
|  | 10.Manitain connectivity of the online test |

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| Goal-ID-3 | Notify Jobseekers |
| Purpose | To inform the candidate about the result and time to time updates related to any available post |
| Target Audience | Jobseeker |
| Status | On-going |
| Task Description | 1. To inform the candidates about their result (selected /not selected) |
|  | 2. To give time to time notifications about progress of selection process |
|  | 3. Announce the result of online test in specified time period |
|  | 4. Create a set-up of online mail for the company |
|  | 5. To give updates about the newly created vacancies to the unselected candidates |
|  | 6. To check the connectivity of the mail system |
|  | 7.To check suggestion obtain from mail process |
|  | 8.Uploading the results on company’s official website |
|  | 9.To solve the queries of the candidate through mail process |
|  | 10.To check feedback obtain from mail process |

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| Goal-ID-4 | Job Statistics Report |
| Purpose | To get the information about the available vacancies in the company. |
| Target Audience | Company |
| Status | On-going |
| Task Description | 1. Generate Company job statistics |
|  | 2.Create the statistics of the available post in company and the required field |
|  | 3. To check the requirement of the company. |
|  | 4. Get statistics of the available post. |
|  | 5.Check to fulfil the company requirements through job statistics |
|  | 6.Company related notification needs to be communicated |
|  | 7.Test related notification needs to be communicated |
|  | 8.Notify the jobseeker about the test result |
|  | 9.notify the jobseeker related to future updates |
|  | 10.Inform the eligible candidates |

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| Goal-ID-5 | Generate Random Test |
| Purpose | To create a questionnaire having random questions from a given set of questions of varying difficulty .By picking random questions, many questionnaires can be generated. Also, this helps to avoid plagiarism |
| Target Audience | Jobseeker |
| Status | On-going |
| Task Description | 1.Collect questions of different difficulty levels from the company |
|  | 2.Pick appropriate number of questions to form a questionnaire |
|  | 3.Select the questions randomly, but the same number of questions from each category |
|  | 4. Discuss about topics for the test with the company |
|  | 5. As the questions are provided randomly, validate the answer key accordingly. |
|  | 6. To make sure that the questions do not repeat |
|  | 7.Create record for number of job seekers selected for personal interview. |
|  | 8.Important step to judge the intelligence and technical knowledge of the job seeker |
|  | 9. Provide the test to the jobseeker |
|  | 10. Select the appropriate candidate for available post |

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| Goal-ID-6 | Terms and Conditions |
| Purpose | To form the project joining report for the selected candidate according to policies decided by the company. |
| Target Audience | Jobseeker, Company |
| Status | On-going |
| Task Description | 1. To receive polices follow up by the company. |
|  | 2. Collect minimum requirements for the selected candidate from the company. |
|  | 3. Discussion about terms and conditions of the company. |
|  | 4. Explanation of the policies maintain by the company in an appropriate manner in the joining report. |
|  | 5. Verification of the documents of the selected candidates by the company. |
|  | 6. To explain in general overview of the company. |
|  | 7. To form the process client report. |
|  | 8. To build term matrix according to requirements of the company. |
|  | 9. To decide the time span for the selected candidate for the joining of the post. |
|  | 10. Take time to time updates of polices from the company. |

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

**CS 303: Software Engineering Laboratory**

Assignment No: 7

**Fresher’s Recruitment System**

**User Story Cards**

***15-11-2017***

*!!br0ken!!****Version 1.0***

|  |  |  |  |
| --- | --- | --- | --- |
| Project Group Information | | | |
| Roll. No. | **Gr. No.** | **Name** | **Roles** |
| 36 | **151373** | **Revati Lachyan** | **Job Seeker** |
| 38 | **151745** | **Neel Vyawahare** | **Job Seeker** |
| 43 | **151762** | **Kshitij Yadav** | **Company Manager** |

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

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

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# 1. INTRODUCTION

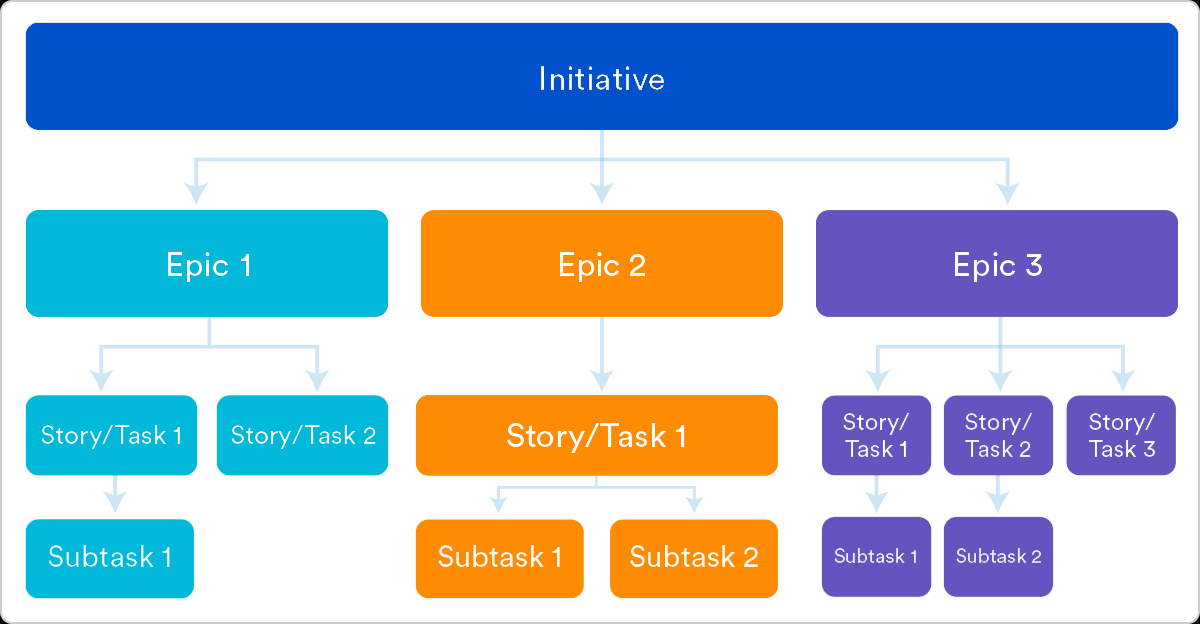
*What does defining customer problems look like in an agile world? The agile manifesto reminds us that we don’t always have to do it the “traditional” way. As product managers, we should be doing whatever is required to tell the story of the customer. Try different things: experiment, explore, then do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

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| **Epic** Large body of work, contains stories | **Story** Smallest unit of work, also 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******charts*** *can also 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 also 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 starts). 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

|  |  |  |
| --- | --- | --- |
| Objective-1 | Create Job-seeker Profile | |
| Purpose | Develop the jobseeker profiles to provide it to the company for future references. His information also helps us to send updates to the selected as well as unselected candidates. | |
| Target Audience | Developer | |
| Status | Completed | |
| Role: | **As a**Developer | |
|  | **I want to** *<perform some task>* | **so that I can** *<achieve some goal>* |
| Task Description | 1.Request creation of jobseeker profile | Use for future references |
|  | 2.Accept new jobseeker profile inputs | Add new candidates for the job |
|  | 3. Create a basic database structure | Store the details of new applicants |
|  | 4. Link the UI with the database | Store the collected data in the database |
|  | 5. Add new records to the database | Add details of all candidates |
|  | 6. Validate jobseeker Profile Format | Verify database is consistent |
|  | 7. Count the number of jobseekers | Keep a record of the applications |
|  | 8.Generate backup of database of jobseeker information | Retrieve data in case of loss of data |
|  | 9. Share database file with project team | Expect the team to work on the file |
|  | 10.Launch Jobseeker profile | Fulfil project deliverables |

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| Process-1 | Collect Job Seeker Data. | |
| Purpose | Before the jobseeker applies for any post in the company, she/he needs to fill up the required details demanded by the system. The details to be collected will be specified by the company. This helps to put data in the database of jobseeker information. | |
| Target Audience | Jobseeker | |
| Status | Completed | |
| Role: | **As a**developer | |
|  | **I want to** *<perform some task>* | **so that I can** *<achieve some goal>* |
| Task Description | 1.Create UI to collect jobseeker details | Receive appropriate information from the jobseeker |
|  | 2.Acquire information criterion from the company | Obtain only that information which is important to the company |
|  | 3.Provide UI for details to every jobseeker | Collect the information of jobseeker |
|  | 4. Set up a mandatory field set in the jobseeker UI | Collect important details of jobseeker |
|  | 5. Add proper data types for the asked information | Store the information in the right format |
|  | 6. Provide service of uploading documents in the jobseeker UI | Preserve relevant documents |
|  | 7. Provide easy way to enter dates in the information section | Maintain a proper format for dates |
|  | 8. Transfer collected data for storage | Preserve this jobseeker information for future references |
|  | 9. Create log file to record every change made in the system | Store the changes made in the system |
|  | 10. Present the jobseeker data to the company | Make it easier to spot |

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| --- | --- | --- |
| Process-2 | Validate Collected Data. | |
| Purpose | The information provided by the jobseekers is validated by the system so that appropriate and correct information is stored in the database of jobseeker information | |
| Target Audience | Internal stakeholders | |
| Status | Completed | |
| Role: | **As a**developer | |
|  | **I want to** *<perform some task>* | **so that I can** *<achieve some goal>* |
| Task Description | 1.Confirm if data in CV is same as data provided in the information section | Provide validated information to the project team |
|  | 2. Confirm that data is stored in the correct column | Provide reliable information to the company |
|  | 3. Check if a profile has been repeated | Avoid space wastage |
|  | 4. Check if the mandatory fields have been filled | Make sure important information is collected |
|  | 5. Validate the entered information by the jobseeker | Provide reliable information to the project team |
|  | 6. Delete irrelevant information of unselected candidates after the selection | Avoid space wastage |
|  | 7. Validate trueness of uploaded documents | Remove the fake jobseeker profiles |
|  | 8. Inform the glitches to the respective jobseeker | Ensure that the required changes are made |
|  | 9. Maintain the record of the changes made to the database | Keep track of every action done by the system |
|  | 10.Provide the record of changes to the team | Inform the company of every change in the records |

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| --- | --- | --- |
| Objective-2 | Preserve Job-seeker Data | |
| Purpose | After the collection of data, this data is stored in a database for future references. If a candidate is selected, his information need not be asked for again. Even the data of non-selected candidates is stored to send future updates to them. | |
| Target Audience | Internal stakeholders | |
| Status | On-going | |
| Role: | **As a**Developer | |
|  | **I want to** *<perform some task>* | **I want to** *<perform some task>* |
| Task Description | 1.Create a database to store jobseeker information | Preserve the details regarding the jobseeker |
|  | 2.Provide proper column names to the database | Provide information in a systematic manner |
|  | 3.Check if candidate is selected or not | Store the details in the database |
|  | 4. Ensure that data is entered in the correct database | Confirm the storage address of the jobseeker database |
|  | 5. Update database of jobseeker | Reflect the changes made in the information, to the database |
|  | 6. Link UI to jobseeker information database | Store entered information in the database |
|  | 7. Organize the data into the system | Access the information of jobseeker easily |
|  | 8.Categorize the jobseekers according to field of interest | Categorize the jobseekers according to field of interest |
|  | 9. Make the system secure | Maintain the privacy of the jobseeker |
|  | 10.Record formulated changes in the database | Convey it to the project team |

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| --- | --- | --- |
| Process-1 | Access Stored Data | |
| Purpose | This information of jobseekers stored in the database will be used for future references. We can convey the future updates regarding the company through data provided. Also, if any specific information is required regarding any employee, we can access the data. | |
| Target Audience | Internal stakeholders | |
| Status | On-going | |
| Role: | **As a**n end user | |
|  | **I want to** *<perform some task>* | **so that I can** *<achieve some goal>* |
| Task Description | 1.Refer to the jobseeker data during the actual selection | Obtain an idea regarding the academic achievements of the candidate |
|  | 2. Count the number of jobseekers in the database | Provide a count of jobseekers |
|  | 3. Segregate candidates according to given criterion by company | Have a clear picture by grouping the candidates |
|  | 4.Use jobseeker data | Make the UI of jobseeker more personal |
|  | 5.Make required changes in the information | Correct the flaws found in the information |
|  | 6.Notify the jobseeker if any wrong information is found | Ask him to make changes in his/her profile |
|  | 7. Notify changes to the project team | Maintain co-ordination between system and company |
|  | 8. Group the candidates in the database with regard to their field of interest | Obtain a list of jobseekers with the same interest |
|  | 9. Maintain a record of conduct of the candidate | Judge the candidate on various aspects |
|  | 10.Add new records in the database | Easily update the database of jobseeker information |

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| Process-2 | Filter Eligible Candidates | |
| Purpose | According to the criterion provided by the company, the information of the jobseeker is filtered. This helps to easily gather information of selected candidates. | |
| Target Audience | Company | |
| Status | On-going | |
| Role: | **As a**Developer | |
|  | **I want to** *<perform some task>* | **so that I can** *<achieve some goal>* |
| Task Description | 1.Obtain academic achievements of jobseeker | Modify the database according to the result |
|  | 2. Create a new column in the jobseeker database | Preserve the result of analysis of academic achievements |
|  | 3.Sort the marks and respective details of jobseekers | Easily obtain the details of the selected candidates |
|  | 4.Highlight the records of selected candidates | Spot the candidates easily, in the database |
|  | 5. Preserve the separate tables regarding field of interest | Convey the selected candidates individually to the project team |
|  | 6.Make the system more secure | Avoid hampering of the result of candidates in the online test |
|  | 7. Check if the space available is sufficient | Confirm whether the entire information of jobseekers is stored properly |
|  | 8. Remove the unnecessary information of the unselected candidates | Clear space for future usage |
|  | 9.Preserve important information of the unselected candidates | Send information about future vacancies in the company, to them |
|  | 10. Send the updated database of jobseeker to the project team | Provide to them, the details of the selected candidates |

# 4. USER STORIES: GOAL-2

|  |  |  |
| --- | --- | --- |
| Objective-1 | Collect Questions | |
| Purpose | The questions asked in the online test are set by the project team and selected randomly by the system. These question serve as a purpose to check the knowledge of the jobseekers | |
| Target Audience | Jobseeker | |
| Status | On-going | |
| Role: | **As a**developer | |
|  | **I want to** *<perform some task>* | **so that I can** *<achieve some goal>* |
| Task Description | 1.Apply for the questions for the online test | Create questionnaires on various areas regarding the job post |
|  | 2.Fetch the questions |  |
|  | 3. Test the knowledge of the candidate for the desired post | Select appropriate candidates for the next rounds of the job |
|  | 4. Discuss the marking scheme with the project team | Give the marks for right answers accordingly |
|  | 5. Create a database for storing questions of online test | Preserve the questions to be asked in the online test |
|  | 6.Add questions to the database | Keep a record of questions to be asked |
|  | 7. Link jobseeker database with question database | Know which questions are to be asked to individual jobseeker |
|  | 8.Secure the question database | Prevent hacking of any sort |
|  | 9. Inform the jobseekers about the selection criteria | Intimate them about the criteria even before conducting the online test |
|  | 10. Provide these questions for the selection process | Organize the questions into a questionnaire |

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| Process-1 | Collect Question Set | |
| Purpose | The online test to be set would have to test the candidates in various areas of information required for the job. These questions will be set by the project team and will be asked to the candidates, through the system | |
| Target Audience | Jobseeker | |
| Status | On-going | |
| Role: | **As a**developer | |
|  | **I want to** *<perform some task>* | **so that I can** *<achieve some goal>* |
| Task Description | 1.Apply for the question set from the project team | Create a questionnaire for the online test |
|  | 2.Classify the questions according to the area of working | Provide separate questions for different job applicants |
|  | 3. Fetch these questions for online test | Gather them together to make a questionnaire |
|  | 4. Apply for the options in MCQ options | Store them in the question database |
|  | 5. Fetch the MCQ options | Provide options in the MCQ questions |
|  | 6.Create a database for questions | Store the questions in the database |
|  | 7.Create proper columns in the question database | Create a easily readable storage for the questions |
|  | 8. Apply for the answers of the questions of online test | Store the answer in the question database only |
|  | 9.Fetch the answers of the MCQ questions | Compare the provided answers with the test answers to give marks |
|  | 10.Add the collected questions to the database | Access them whenever it is necessary |

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| Process-2 | Decide Job Criteria | |
| Purpose | The first round, that is, the online test will be cleared by the candidate only when he/she acquires some marks decided by the system before the commencement of the online test. | |
| Target Audience | Jobseeker | |
| Status | Completed | |
| Role: | **As a**Developer | |
|  | **I want to** *<perform some task>* | **so that I can** *<achieve some goal>* |
| Task Description | 1.Apply for the selection criteria from the company | Immediately filter the candidates according to whether they are selected or not |
|  | 2.Obtain the job criteria for selection of candidates | Store the details of criteria before the exam is conducted |
|  | 3.Create a new column in the question database to store the job criteria | Preserve the cut-off marks for the online test |
|  | 4.Maintain different job criteria for every post | Sort the respective candidates properly |
|  | 5.Confirm that cut-off marks are less than max marks of the online test | Obtain more than null eligible candidates |
|  | 6. Launch the job criteria on the system | Intimate the jobseekers about the selection criteria |
|  | 7. Convey the area of interest of jobseekers to the project team | Provide an idea to the project team about the interests of candidates |
|  | 8. Notify the jobseeker about the post he/she should apply for | Inform the jobseekers to apply for job in their field of interest |
|  | 9. Confirm that the jobseeker has applied for the correct post | Witness eligible candidate compete for the post |
|  | 10.Apply the job criteria to the online test | Filter the selected candidates |

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| Objective-2 | Select Questions | |
| Purpose | The collected questions are to be selected and are to be made into questionnaires to test the knowledge of the jobseekers | |
| Target Audience | Jobseeker | |
| Status | On-going | |
| Role: | **As a**Developer | |
|  | **I want to** *<perform some task>* | **so that I can** *<achieve some goal>* |
| Task Description | 1.Collect the question database | Select questions to form test questions |
|  | 2. Fetch the number of questions to be asked | Create a questionnaire of proper attributes |
|  | 3.Fetch the number of questions to asked from each difficulty level | Provide a consistent online exam |
|  | 4. Fetch the number of questions to asked from each subject | Check the credibility of the jobseeker in every subject |
|  | 5. Confirm whether the answers of questions are correct | Provide a correct answer key for the online test |
|  | 6.Fetch the time allotted for the online test | Add a timer for the online test |
|  | 7.Confirm whether the time allotted is manageable | Achieve minimum number of job applicants for the next round |
|  | 8.Provide timer for the online test | Keep uniformity during conduction of online test |
|  | 9.Select questions for the online test | Formulate a question set for the online test |
|  | 10. Make a questionnaire | Conduct an online test for the jobseekers |

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| --- | --- | --- |
| Process-1 | Filter Question Set | |
| Purpose | The collected questions should be grouped according to their difficulty level and also, according to area of work or the job posts. | |
| Target Audience | Jobseeker | |
| Status | On-going | |
| Role: | **As a**Developer | |
|  | **I want to** *<perform some task>* | **so that I can** *<achieve some goal>* |
| Task Description | 1.Acquire the difficulty level of the questions of online test | Filter the questions according to difficulty level |
|  | 2.Create a new column in the question database | Fill in the level of difficulty of each question |
|  | 3.Store the level of difficulty in the database | Create a questionnaire of the same difficulty level |
|  | 4.Sort the questions according to difficulty level | Group the questions with respect to the same difficulty level |
|  | 5.Sort the answers according to the previous sorting | Maintain the efficiency of the database of questions |
|  | 6.Confirm whether the order of options in MCQ questions is maintained | Maintain consistency of the questions and its options |
|  | 7.Preserve the areas of interest of the jobseekers | Create a questionnaire pertaining the same area of work |
|  | 8.Fetch the number of questions to be asked of each level | Have same level of difficulty of the online test |
|  | 9.Pick up random questions of each difficulty level | Achieve randomness for the test and thus, plagiarism isn’t entertained |
|  | 10.Provide question set to make questionnaire | Conduct a test with the questionnaire |

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| Process-2 | Select Suitable Questions | |
| Purpose | The questions to be asked in the online test should be of the same calibre, testing each candidate on the same level, depending on the job which has been applied for | |
| Target Audience | Jobseeker | |
| Status | On-going | |
| Role: | **As a**Developer | |
|  | **I want to** *<perform some task>* | **so that I can** *<achieve some goal>* |
| Task Description | 1.Acquire the number of questions to be asked from each level of difficulty | Create questionnaires of same number of questions |
|  | 2.Obtain questions from the question database | Select a few questions from the question database to form a question set |
|  | 3.Filter these questions according to area of interest | Maintain the domain in the question set |
|  | 4.Filter questions according to level of difficulty | Have same level of difficulty of the online test |
|  | 5.Apply for marks for every question | Confirm that total marks does not increase the maximum marks |
|  | 6.Select random questions from the question database to form a questionnaire | Maintain randomness while creating any question set |
|  | 7.Confirm that the addition of marks of each question exactly adds up to the maximum marks of the test | Maintain uniformity of every test which is conducted for the jobseekers |
|  | 8.Check the probability of a candidate getting selected for the next round | Maintain an approximate count of the jobseekers which will be selected |
|  | 9.Confirm whether the questions are from the same work area | Provide a consistent test for the jobseekers |
|  | 10.Provide question set to make questionnaire | Conduct a test with the questionnaire |

# 5. USER STORIES: GOAL-3

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| Objective-1 | Test Results | |
| Purpose | To declare the test results of the online test conducted by the company to check the overall knowledge of the candidate. | |
| Target Audience | Jobseekers | |
| Status | On-going | |
| Role: | **As a authority of the company** | |
|  | **I want to** *<perform some task>* | **I want to** *<perform some task>* |
| Task Description | 1. To conduct the online test for recruiting process | For deciding the knowledge level of applicant |
|  | 2.To create different slots of recruiting process | For convenience of jobseeker and company to handle the recruiting process |
|  | 3.Formulate test assets of online recruiting process | Check excellence level of the jobseekers in different fields |
|  | 4.To maintain network speed | For convenience of mail system |
|  | 5.checking of security level of online recruiting process | Any kind of violations must be avoided |
|  | 6.Mail to all candidates about time to time updates of recruiting process | To notify the selected candidate about any related information about company |
|  | 7.Maintain level of questions in online recruiting process | To check knowledge level of jobseekers by difficulty level of process |
|  | 8.Maintain time limit of online test | Time management quality can be checked through this |
|  | 9.Uploading results in specific time | Easy for company to conduct next level of recruitment process |
|  | 10.Reverify the results of online test | Any misspelled can be avoided in the recruiting process |

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| Process-1 | Declare Test Results | |
| Purpose | To declare the results of online test in specified time process, so that it is for convenient company to carry the further recruitment process | |
| Target Audience | Jobseekers | |
| Status | Ongoing | |
| Role: | **As a authority of the company** | |
|  | **I want to** *<perform some task>* | **I want to** *<perform some task>* |
| Task Description | 1.Announce the results in specified time spam | Convenient for further recruitment process |
|  | 2.Sort of the results according to criteria | Data will be in sorted manner for company |
|  | 3.Maintain connectivity of the mail system | Convenience for company for formal communication with eligible candidates |
|  | 4.Results recheck by company authorities | Hampering of the results can be avoided |
|  | 5.Sending mail to the selected candidate | Candidates will get information about their results in convenient manner |
|  | 6.Answer to the questions related about results | Queries about recruitment process of eligible candidates will get solved |
|  | 7.Uploading the results on the company’s official website | Easy for selected candidates who doesn’t receive mail case in any case |
|  | 8.Inform the candidates about next stages of recruiting process | Eligible candidates can understand the next stages of the recruiting process |
|  | 9.Inform the dates of recruiting process to selected candidates | Convenient for candidates to prepare for next stages of the recruiting process |
|  | 10.Allocate the time slots of next stages of recruiting process to selected candidates | Easier for selected candidates to understand the schedule of recruiting process |

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| Process-2 | Select Eligible Candidates | |
| Purpose | To select eligible candidates from online test for going one step ahead to choose an appropriate candidates for desired post | |
| Target Audience | Jobseekers | |
| Status | On-going | |
| Role: | **As a recruitment department of the company** | |
|  | **I want to** *<perform some task>* | **I want to** *<perform some task>* |
| Task Description | 1.Sort test results according to criteria | So that company can understand the strength of eligible candidates |
|  | 2.Decide the test results criteria for different fields | Minimum Requirements of the different field will be achieved |
|  | 3.Add general perspective results in main online test | In general excellence of candidate can be judged |
|  | 4.Sort the candidates according to different criteria of results | Minimum strength of the candidate will be judged easily |
|  | 5.Inform the selected candidates about results | Easier for selected candidates to prepare for next stages of recruiting process |
|  | 6.Inform about description of next level of recruitment process | Eligible candidate can understand the recruitment process |
|  | 7.Inform about the dates of the next level of recruitment process | Convenient for company to the conduct next level stages. |
|  | 8.Inform about time to time changes in recruitment process | Selected candidates will understand the time to time updates |
|  | 9.Deciding the slots of eligible candidates of next level | Convenient for candidates to face next level of recruitment process |
|  | 10.Describe important polices of the company to the eligible candidate | Eligible candidates can understand the company’s polices |

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| Objective-2 | Future Updates | |
| Purpose | To mail future updates to the selected candidates so that selected candidates will get time to time updates of the recruitment system | |
| Target Audience | Selected and unselected candidates | |
| Status | On-going | |
| Role: | **As a head of the mail system** | |
|  | **I want to** *<perform some task>* | **I want to** *<perform some task>* |
| Task Description | 1.Create the mail system for sending the mail to jobseekers | To inform time to time changes of recruitment process |
|  | 2.Maintain the connectivity of the system | Convenient for company for any formal communication with jobseekers |
|  | 3.To create vacancy report of the company | Easier for higher authorities to take decision about recruiting vacancies in the company |
|  | 4.To send time to time updates of recruitment process to eligible candidates | Convenient for eligible candidates for their preparation about next stages of recruiting process |
|  | 5.To send future vacancies to unselected candidates | To inform about newly created opportunities in the company to the jobseekers |
|  | 6.To upload vacancy report on official website | Maximum jobseekers can be applied for the desired post in the company |
|  | 7.Discuss with authorities about any new vacancy | Higher authorities can take final decision on any new vacancy |
|  | 8.Discuss about the details process of next stages of the recruitment process | Recruitment process will be carry in the sorted manner |
|  | 9.Inform about the recruiting process to the selected candidates | Selected candidates can analyse the company’s recruiting process |
|  | 10.Inform about changes in the recruiting process to selected candidates | Selected candidates can adjust their schedule according to the recruiting process |

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| Process-1 | Trace later stages | |
| Purpose | Tracing the later stages will use to give one step ahead to the recruitment process means next stage of the recruitment process | |
| Target Audience | Jobseekers | |
| Status | On-going | |
| Role: | **As a authority of the company** | |
|  | **I want to** *<perform some task>* | **I want to** *<perform some task>* |
| Task Description | 1.Decide the next stages of the recruitment process | Recruitment process may get sorted for desired post |
|  | 2.Decide the difficulty level of next stages of recruitment process | Company’s authorities can decide the eligibility of the selected candidate |
|  | 3.Decide the dates of next stages of recruitment process | Recruitment process will be carried in sorted manner |
|  | 4.Decide the time to time updates of the next stages of the recruitment process | Convenient for authorities to decide rescheduling of the recruitment process |
|  | 5.Send mail to the eligible candidates of the recruitment process | Convenient for eligible candidates for their preparations for next level of recruitment process |
|  | 6.Send time to time updates of the recruitment process to the eligible candidates | Convenient for eligible candidates to understand the changes in the recruitment process |
|  | 7.Answer any queries of the recruitment process to eligible candidates | Clarify the doubts about recruitment process to eligible candidates |
|  | 8.Reverify the documents of the eligible candidates | To avoid any hampering about candidates documents |
|  | 9.Inform about the policies of the company to the selected candidates | Selected candidates can analyse the overall environment of the company |
|  | 10.Inform about joining report to the final stage selected candidates | Convenient for selected candidates to get sufficient time for understanding of the joining report |

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| Process-2 | Future vacancy reports | |
| Purpose | Time to time future vacancies of the company mail to unselected candidates so that it will be convenient for both company and jobseekers | |
| Target Audience | Jobseekers | |
| Status | On-going | |
| Role: | **As a authority of the company** | |
|  | **I want to** *<perform some task>* | **I want to** *<perform some task>* |
| Task Description | 1.To decide the vacancies in different fields of the company | So that convenient for authority to decide the report |
|  | 2.Decide the significance of the particular vacancy in different area | Give the priority while creating report |
|  | 3.Decide the time of urgency of particular post | Immediate action can take on that vacancy while creating report |
|  | 4.Discuss with authority to recruiting about particular post | Decide the future of that vacancy in the vacancy report |
|  | 5.Creating the vacancy reports in sorted order | Convenient for people to analyse the report |
|  | 6.Take suggestion of higher authority while creating report | Flaws of the vacancy report can be removed easily |
|  | 7.Uploading vacancy report on company’s official website | Fresher’s can get the information about vacancy |
|  | 8.Give mail of vacancy to the unselected candidates | Unselected candidate will get inform about the vacancies in the company |
|  | 9.Send mail to the jobseekers who inquiry about the different post | Inquirer will get the information about vacancies in the company |
|  | 10.Finalise the report after assuring of the authority | Easy to published the finalise report on official website |

# 6. USER STORIES: GOAL-4

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| Objective-1 | Job Statistics Report | |
| Purpose | The job confirmations from the selected candidates and the still left vacancies are to be recorded in a formal fashion. This will provide an immediate vision of the job scenario in the company | |
| Target Audience | Company | |
| Status | On-going | |
| Role: | **As a**Developer | |
|  | **I want to** *<perform some task>* | **so that I can** *<achieve some goal>* |
| Task Description | 1.Fetch the jobseeker database | Prepare the graph using the details |
|  | 2. Generate a graph with these details | Provide current job scenario of the company in one sight |
|  | 3.Find the number of the selected jobseekers | Add to the information by which the graph has been generated |
|  | 4.Formulate this information in the graph | Provide precise information about the job vacancies |
|  | 5. Record the number of vacancies available in the company | Gather this record and inform the unselected candidates about it |
|  | 6.Check the graph using random values | Cross-validate the graph of job-statistics |
|  | 7.Generate a template for sending the information | Maintain uniformity regarding the format of the message |
|  | 8. Notify the unselected jobseekers by the vacant posts | Approach the candidates for the vacancies created |
|  | 9. Finalize the contents of the graph | Provide the company with the job statistics |
|  | 10. Provide the graph to the company | Make it available for future use |

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| Process-1 | Current Job Statistics | |
| Purpose | Examine the number of selected candidates and the number of vacancies available in the company and formulate it in the form of a graph | |
| Target Audience | Company | |
| Status | On-going | |
| Role: | **As a**Developer | |
|  | **I want to** *<perform some task>* | **so that I can** *<achieve some goal>* |
| Task Description | 1.Obtain a list of the selected candidates | Utilize the record for future applications |
|  | 2. Obtain a list of confirmed selected candidates | Create a reliable recording of the company statistics |
|  | 3.Create a new column in the question database | Record whether the candidates is selected or not |
|  | 4.Plot a graph showing statistics of the company | Create a understandable visual of the job vacancies available |
|  | 5.Cross-validate the graph | Provide a correct graph to the company |
|  | 6. Confirm whether changes made in the database reflect in the graph | Formalize every source which provided information |
|  | 7. Generate features of the graph that are valuable | Improve the graph |
|  | 8.Evaluate different feature selection strategy | Choose appropriate strategy |
|  | 9.Provide a clear graph to the company | Make the graph of the company job statistics readable |
|  | 10. Finalize the graph | Use the graph for further processes |

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| Process-2 | Available Vacancies | |
| Purpose | After the job selection, make a record of the available vacancies in the company. The non-selected candidates who had applied will be informed about these vacancies so that they can apply for the job again. | |
| Target Audience | Jobseeker | |
| Status | On-going | |
| Role: | **As a**Developer | |
|  | **I want to** *<perform some task>* | **so that I can** *<achieve some goal>* |
| Task Description | 1.Obtain the list of selected and unselected candidates | Form clear observations of the test results |
|  | 2. Remove the unnecessary information about the unselected candidates | Avoid space wastage |
|  | 3.Preserve the contact information of the unselected candidates | Inform them about the job vacancies in the company |
|  | 4.Obtain the graph of job statistics | Obtain an idea regarding the job vacancies |
|  | 5. Observe the number of vacancies available | Get exact number of vacancies available in the company |
|  | 6.Notify the jobseekers about the vacancies | Create opportunity for the unselected candidates again |
|  | 7. Update the graph | Adopt to the changes quickly |
|  | 8. Create a template to send this information to the jobseekers | Maintain uniformity while communicating with the jobseekers |
|  | 9.Formulate a complete mail to be sent | Maintain formality while communicating with the jobseekers |
|  | 10.Dispatch this mail to the unselected jobseekers | Inform the jobseekers about which jobs they can apply for |

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| Objective-2 | Examine Test Result | |
| Purpose | Soon after the test results are obtained, the numbers of candidates selected are recorded. This result can then be used to check if the question set prepared is appropriate or not | |
| Target Audience | Company | |
| Status | On-going | |
| Role: | **As a**End User | |
|  | **I want to** *<perform some task>* | **so that I can** *<achieve some goal>* |
| Task Description | 1.Obtain the jobseeker database | Analyze the jobseeker database |
|  | 2. Obtain the result of online test | Check whether the created online test is appropriate for job selection |
|  | 3. Gather the number of applicants selected | Form records regarding the result of online test |
|  | 4. Find the ratio of applicants selected | Calculate the overall selection ratio |
|  | 5. Confirm whether this ratio is acceptable | Improvise on the selection ratio |
|  | 6. Choose the problem area in the question set | Make appropriate changes to improve the quality of the conducted test |
|  | 7.Generate changes in the questionnaire as per the requirement | Refine the questionnaire of the online test |
|  | 8. Duplicate these changes in the question database | Reflect changes made in the question set in the question database |
|  | 9. Check whether area of work are preserved | Avoid disorder in the question database |
|  | 10.Forward the changed question database to the company | Inform the company about any changes made to the database |

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| Process-1 | Notify job seeker | |
| Purpose | As the results of the online test are declared, the jobseekers are notified of their performance in the online test. By this information, it is indicated to them whether they have to appear for the next rounds of the job selection or not. | |
| Target Audience | Jobseeker | |
| Status | On-going | |
| Role: | **As a**Developer | |
|  | **I want to** *<perform some task>* | **so that I can** *<achieve some goal>* |
| Task Description | 1.Obtain result of the online test | Apply this result into future uses |
|  | 2.Create a new column in jobseeker database | Store whether the candidate has been selected or not |
|  | 3.Mention whether the candidate has been selected or not | Preserve the final verdict regarding every candidate |
|  | 4. Fetch the number of candidates that have been selected for the job | Inform them regarding job selection processes |
|  | 5. Fetch the number of candidates that are not selected | Inform them regarding the future vacancies |
|  | 6. Create a format to notify each jobseeker | Maintain uniformity regarding any message sent by the system |
|  | 7. Notify candidates who have been selected about the future processes of selection | Give guidelines to follow a specific process for next rounds of selection |
|  | 8. Notify unselected candidates about the future vacancies | Provide them with opportunity to apply for other job applications |
|  | 9. Confirm if all candidates have been informed | Convey information to all the applicants |
|  | 10. Inform the company about the notification | Keep the company updated about the system |

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| Process-2 | Examine result statistics | |
| Purpose | Once the result of the online test is obtained, this information is formulated into a graph. This graph are used for future references to get an easy insight into the job statistics | |
| Target Audience | Company | |
| Status | On-going | |
| Role: | **As a**Developer | |
|  | **I want to** *<perform some task>* | **so that I can** *<achieve some goal>* |
| Task Description | 1.Obtain the result of the online test | Convert it into a graph for convenient reading. |
|  | 2. Confirm whether the result is of the respective candidate | Provide a consistent graph to the company |
|  | 3. Create a basic graph | Add the job status of every jobseeker |
|  | 4. Populate the graph of statistics | Gather information and make a complete graph |
|  | 5. Analyse the graph made of job statistics in the company | Gather the posts which are vacant and occupied |
|  | 6. Maintain the record of jobs undertaken by new jobseekers | Find the exact posts which are occupied after this selection process |
|  | 7. Maintain the record of the vacancies available in the company | Find the exact posts which are vacant |
|  | 8. Create a basic database to maintain details of jobs | Provide brief details about job vacancies to the project team |
|  | 9. Populate the graph by adding details of jobs and vacancies | Inform the company details of every jobseeker job scenario |
|  | 10. Provide this database to the project team | Convey to the project team the exact details regarding jobs in the company |

# 7. USER STORIES: GOAL-5

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| Objective-1 | Format Questionnaire | |
| Purpose | We need to launch the questionnaire for the online test so that the test can be conducted for selecting the jobseeker for the available post. | |
| Target Audience | jobseeker | |
| Status | On-going | |
| Role: | **As a***<type of user>* | |
|  | **I want to** *<perform some task>* | **I want to** *<perform some task>* |
| Task Description | 1. Acquire test questionnaire | 1. Filter the collected questions. |
|  | 2.Sort questions of the test. | 2. Sort the questions according to the difficulty level. |
|  | 3.Decide total number of questions | 3.Decide the test pattern. |
|  | 4.Decide marks for questions | 4. Decide the mark for test according to the difficulty level. |
|  | 5.Decide test pattern | 5. Position of question according to difficulty level. |
|  | 6.Distribute test questionnaire | 6. To provide questionnaire to company to launch test. |
|  | 7.Inform the company about test pattern | 7. Help them to understand test pattern |
|  | 8.Ask them about marking scheme | 8. Help them to understand how the score will be calculated |
|  | 9.Design the test launch | 9. Decide the starting and ending of test. |
|  | 10.Launch test | 10.Launch the test |

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| Process-1 | Acquire test questionnaire | |
| Purpose | The collected questionnaire should be sorted according to the difficulty level and also decide the marking scheme and test pattern | |
| Target Audience | jobseeker | |
| Status | On-going | |
| Role: | **As a***<type of user>* | |
|  | **I want to** *<perform some task>* | **I want to** *<perform some task>* |
| Task Description | 1.Obtain the collected questions | 1.Obtain the collected questions |
|  | 2.Obtain the question of different field | 2.Obtain the question of different field |
|  | 2.Sort questions | 2.Sort questions |
|  | 3.Decide total number of questions | 3.Decide total number of questions |
|  | 4.Decide marks for questions | 4.Decide marks for questions |
|  | 6. Selection of question | 6. Selection of question |
|  | 7.Inform the company about test pattern | 7.Inform the company about test pattern |
|  | 8.Ask them about marking scheme | 8.Ask them about marking scheme |
|  | 9.Design the test launch | 9.Design the test launch |
|  | 10. Finalise the question for test | 10. Finalise the question for test |

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| Process-2 | Perform question optimisation | |
| Purpose | Selected question must sorted according to their respective field , and also the difficulty level of questions should be decided so that the associated marks of each question is predefined | |
| Target Audience | Jobseeker | |
| Status | On-going | |
| Role: | **As a***<type of user>* | |
|  | **I want to** *<perform some task>* | **I want to** *<perform some task>* |
| Task Description | 1.Optimise the selected question | 1. Prepare the questions for the test |
|  | 2.Sort questions according to topic | 2. Select the question of each topic equally |
|  | 3.Search topics for test | 3. Cover the topics related to available post |
|  | 4.Decide aim of test | 4. Fulfil the job requirement |
|  | 5.Sort questions according to difficulty level | 5. Select questions of different difficulty level equally |
|  | 6.Decide marks of the online test | 6. Decide the marks of each question according to difficulty level of question |
|  | 7.Decide test pattern | 7. Decide which questions to be asked first |
|  | 8.Decide test duration | 8. Fix time for test |
|  | 9.Verify test question | 9. Check if all requirements are fulfilled |
|  | Perform question optimisation | 10. Finalise the questions for the test |

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| Objective-2 | Process Test Assets | |
| Purpose | Distribute test which is finalised initially and launch the test so that the candidates can be selected for the post. | |
| Target Audience | Jobseeker | |
| Status | On-going | |
| Role: | **As a***<type of user>* | |
|  | **I want to** *<perform some task>* | **I want to** *<perform some task>* |
| Task Description | 1.Distribute the questionnaire | 1. Launch the test for the eligible candidates |
|  | 2.Check company requirement | 2. Design the test which can fulfil job requirement |
|  | 3.Release the test format | 3. Avail the test to the company before the given deadline |
|  | 4.Send finalised questionnaire | 4. Reassure the company about its requirement |
|  | 5.Make required changes | 5. Send the corrected version of questionnaire |
|  | 6.Launch the trial version of online test | 6. Select the candidates for the available post |
|  | 7.Communicate the company | 7. Ask for their permission to conduct test |
|  | 8.Decide Test timing | 8. Launch test as per the time given by the company |
|  | 9.Conduct a trial test | 9. Detect the fault in conducting the test |
|  | 10.Launch online recruitment test | 10. Select the candidates for the available post |

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| Process-1 | Distribute test questionnaire | |
| Purpose | To provide questionnaire to company to launch test. The questionnaire collected must be distributed so that the test can be conducted. | |
| Target Audience | Company | |
| Status | On-going | |
| Role: | **As a***<type of user>* | |
|  | **I want to** *<perform some task>* | **I want to** *<perform some task>* |
| Task Description | 1.Distribute questionnaire | 1. Complete the necessary work before test launch. |
|  | 2.Check Test contents | 2. Correct the wrong questions |
|  | 3.Check test working | 3. Questionnaire is send to examination panel to check the content |
|  | 4.Confirm test content | 4. Search all the subject required for the post are covered |
|  | 5.Confirm test pattern | 5. Review the arrangement of questions |
|  | 6.Confirm questions sorting | 6. Check the sorted questions are of different difficulty level and are balanced |
|  | 7.Check marking scheme | 7. Check the marks associated with each question |
|  | 8.Check test duration | 8 Confirm for how much time the test would be conducted |
|  | 9.Check test termination | 9. Check the working of the test and how it will be terminated |
|  | 10.Check test feedback | 10. Check if the feedback collected is stored in database or not. |

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| Process-2 | Launch test | |
| Purpose | The test should be launched after completion of all the testing process ,so that the jobseeker can be selected for the available post | |
| Target Audience | jobseeker | |
| Status | On-going | |
| Role: | **As a***<type of user>* | |
|  | **I want to** *<perform some task>* | **I want to** *<perform some task>* |
| Task Description | 1.Prepare questionnaire for launch | 1. Launch the test with the selected questions |
|  | 2.Decide test pattern | 2. Launch the test accordingly |
|  | 3.Decide test time | 3. Launch the test at given time |
|  | 4.Decide launch deadline | 4. Conduct the test before the deadline |
|  | 5.Check Test security | 5. Check if the test questions are confidential or not. |
|  | 6.Check Test sign in | 6. Check that the test starts only if the candidate has sign in first. |
|  | 7.Check test submission | 7. Check that the test is submitted properly after the launch |
|  | 8.Check Test working | 8. Check if the working of the test is proper or not after the launch |
|  | 9.Check test feedback | 9. Check if the feedback notification is seen or not |
|  | 10.Feedback submission | 10. Check if the feedback is submitted properly or not. |

# 8. USER STORIES: GOAL-6

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| Objective-1 | Apply Job Terms | |
| Purpose | To inform the job seeker about the terms and condition of the company before joining it. | |
| Target Audience | Company | |
| Status | On-going | |
| Role: | **As a***<type of user>* | |
|  | **I want to** *<perform some task>* | **I want to** *<perform some task>* |
| Task Description | 1.Communicate company | 1. Know their terms and conditions that are required to be fulfilled by jobseeker before joining |
|  | 2.Obtain terms and condition | 2. Inform the jobseeker about the terms one needs to accept before joining |
|  | 3.Obtain package information | 3. Inform jobseeker about the package he will be provided |
|  | 4.Attain package information | 4. Inform the jobseeker about the payment and other facilities |
|  | 5.Provide allowance details | 5. Inform job seeker about various allowances provided to him |
|  | 6.Build terms matrix | 6. Inform jobseeker about terms and condition through matrix |
|  | 7.Decide matrix content | 7. Fill the content of the matrix that is terms of the company correctly |
|  | 8.Communicate company | 8. Verify terms and conditions provided by them |
|  | 9.Prepare proper format | 9. Build the matrix properly of terms and conditions |
|  | 10.Finalise matrix | 10. Completely display the terms and conditions in proper format |

|  |  |  |
| --- | --- | --- |
| Process-1 | Acquire terms and conditions information | |
| Purpose | To acquire the terms and conditions of the company for desired post so that selected candidates can understand the environment of the company | |
| Target Audience | Selected Candidates | |
| Status | On-going | |
| Role: | **As a developer of the system** | |
|  | **I want to** *<perform some task>* | **I want to** *<perform some task>* |
| Task Description | 1.To discuss policies follow of by the company with higher authorities | Understand the policies follow up by the company |
|  | 2.Discuss important terms and conditions of the company | Understand the specific rules of the company |
|  | 3.Discuss the in general overview of the company with authorities | Useful this conditions while forming the joining report |
|  | 4.Form the joining report of the recruiting process | Useful for developer to show this report to the higher authorities |
|  | 5.Discusss the joining report with higher authority | Suggestion and advice get from the higher authorities |
|  | 6.Take a suggestion in the report from the higher authorities | Reconstruct the joining report of the company |
|  | 7.Finalise the report with suggestion given by the authorities | Finalise joining report can be formed for the recruiting candidate |
|  | 8.Finalise the report with the signature of the higher authorities | Higher authorities will read and finalise the joining report |
|  | 9.Mail this joining report to the selected candidates | Easier for candidates to understand the reports |
|  | 10.Discuss about changes in the joining report of the recruiting process | Time to time updates in the finalise report of recruiting process |

|  |  |  |
| --- | --- | --- |
| Process-2 | Build term matrix | |
| Purpose | To build the terms matrix of joining report of recruiting process and terms and conditions of the company. | |
| Target Audience | Selected Jobseekers | |
| Status | On-going | |
| Role: | **As a developer of the system** | |
|  | **I want to** *<perform some task>* | **I want to** *<perform some task>* |
| Task Description | 1.Discuss the policies of the company with authorities | To get an overview of the terms of the company |
|  | 2.Collect the terms and conditions of the company from authorities | To decide the term matrix of the company |
|  | 3.Discuss the requirements of the desired post with authorities | Useful these points while forming the term matrix of the recruitment process |
|  | 4.Form the term matrix of the recruiting process of the company | To get the term matrix of the recruiting process in the company |
|  | 5.Discuss the term matrix with the higher authorities of the company | Take suggestion from the higher authority in the recruitment process |
|  | 6.Take a suggestion in the term matrix from the higher authorities | Useful to form the term matrix of the recruiting process |
|  | 7.Finalise the term matrix of recruiting process | Take final decision on the term matrix of recruiting process |
|  | 8.Show finalise term matrix to higher authorities | Finalise by the higher authority of the company |
|  | 9.Mail this matrix to higher authorities of the company | Higher authority is used this term matrix for other purpose |
|  | 10.Check the time to time updates of the term matrix | Finalise the changes in term matrix of a recruiting process |

|  |  |  |
| --- | --- | --- |
| Objective-2 | Create joining profile | |
| Purpose | To create joining profile of the selected candidates select from finalise stage of the recruiting process so that company can store the data of their newly recruited employee. | |
| Target Audience | Newly recruited employee | |
| Status | On-going | |
| Role: | **As a developer** | |
|  | **I want to** *<perform some task>* | **I want to** *<perform some task>* |
| Task Description | 1.Decide the policies followed up by the company | Easier for developer while designing of the joining report |
|  | 2.Create a joining report of the newly recruited candidates | Convenient for newly recruited candidates to understand the policies of the company |
|  | 3.Reverify the documents of the newly recruited candidate | Hampering of employee’s documents can be avoided |
|  | 4.Create the employee’s profile of the newly created candidates | Convenient for company for handling of the employees data |
|  | 5.Validate the filled up information of the newly recruited candidates | To avoid any wrong information of recruited candidates |
|  | 6.Create backup of the employees information database | As a safety side from company in case of any misspelled of employees data can be happened |
|  | 7.Create the terms and conditions report of the company | Use while creating UI of the recruited candidates |
|  | 8.Create the process-client report of the company | Used to show this report at the time of joining |
|  | 9.Finalise the UI of the newly recruited employee | Easier for developer and company for going one step ahead |
|  | 10.Updates time to time changes as per requirements from company in the UI | Up to date information of the UI of the recruited candidates |

|  |  |  |
| --- | --- | --- |
| Process-1 | Distribute Terms-Condition Report | |
| Purpose | When the candidates will be selected after all rounds of selection, the company will set forward its terms and conditions before joining the company. By achieving this, there will be no chaos after the candidate has joined the company. | |
| Target Audience | Selected jobseekers | |
| Status | On-going | |
| Role: | **As a**End User | |
|  | **I want to** *<perform some task>* | **so that I can** *<achieve some goal>* |
| Task Description | 1.Conduct the next rounds of selection | Have a group of selected candidates for the post |
|  | 2.Obtain the list of finally selected candidates | Convey a formal copy of the terms-condition document to them |
|  | 3.Build a format for the terms and condition document | Maintain uniformity while communicating with the candidates |
|  | 4. Discuss with the higher authorities about the content of terms and condition document | Work under the instructions of the authorities of the company |
|  | 5. Finalize the content of the terms and condition document | Forward the document to all the candidates |
|  | 6. Get an authentic consent in the form a signature | Achieve a formal consent for the terms-condition report |
|  | 7. Distribute the final document to the selected candidates | Inform the selected candidates about the policies of the company |
|  | 8. Supplicate them to sign the document for agreement | Gather most of the selected candidates to work for the company |
|  | 9. Gather all the signed process joining reports | Collect the consents of the selected candidates |
|  | 10. Forward them to the authorities of the company | Convey the status of job selection process to the company |

|  |  |  |
| --- | --- | --- |
| Process-2 | Process Client Report | |
| Purpose | This report briefs the client about the facilities provided by the system created. By generating this report, there will be no chaos regarding the discussed terms during the agreement | |
| Target Audience | Company | |
| Status | On-going | |
| Role: | **As a**Developer | |
|  | **I want to** *<perform some task>* | **so that I can** *<achieve some goal>* |
| Task Description | 1.Obtain the terms discussed during the agreement | Form a base of the client report |
|  | 2. Observe the facilities that the system provides | Formulate the client report |
|  | 3. Generate a format for writing a client report | Formalize the report |
|  | 4. Tick the facilities that have been provided | Finalize the efficiency of the system of online recruitment |
|  | 5. Take the budget allotted in account | Confirm whether the budget was adequate |
|  | 6. Complete the incomplete little tasks | Complete more jobs provided in the services |
|  | 7. Analyze the client report | Find which promised services which have not been provided |
|  | 8. Add appropriate comments in the client report | Convey any extra information regarding the system to the authorities |
|  | 9. Forward the client report to the high authorities | Inform them of the status of the completed system of online recruitment |
|  | 10. Forward a copy to the project team | Convey each formal document regarding the system to the project team |

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

**CS 303: Software Engineering Laboratory**

Assignment No: 8

**Fresher’s Recruitment System**

**Software Configuration Management**

***22-11-2017***

*!!br0ken!!****Version 1.0***

|  |  |  |  |
| --- | --- | --- | --- |
| Project Group Information | | | |
| Roll. No. | **Gr. No.** | **Name** | **Roles** |
| 36 | **151373** | **Revati Lachyan** | **Job Seeker** |
| 38 | **151745** | **Neel Vyawahare** | **Job Seeker** |
| 43 | **151762** | **Kshitij Yadav** | **Company Manager** |

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

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

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# INTRODUCTION

*As identified in the Software Configuration Management (SCM) Plan Standard, the implementation of a formal and structured SCM environment ensures that all Software Development product artifacts are baselined and maintained in a stable environment.*

*This SCM Procedures identifies the procedures that conform to the requirements identified in the SCM Plan Standard. This document is intended to provide a uniform approach to SCM for the software product being developed or modified by projects regardless of location or staffing model. It describes the procedures for managing and controlling the development, delivery, and maintenance of the specific Software Product <Product name>.*

*The SCM Procedures applies to <Product Name> under development or maintenance. It also applies to all documentation products and other project or program initiative documentation that management communicates now or in the future as required to be controlled by SCM procedures. Each project associated with the product will develop work instructions for the implementation of these procedures.*

*The primary audience for this document consists of staff assigned to projects where <Product Name> is within scope are required to implement and apply SCM procedures.*

# ROLES AND RESPONSIBILITIES

*<This section identifies the specific roles and responsibilities as they relate to SCM, each Project will identify the role that will be responsible for the Product. The SCM Manager will create work instruction documents to assist the project team members with the responsibilities within their assigned role. Each Project will identify who is assigned to each role by having one roles and responsibilities table below per project by coping table for each project and pasting directly below the previous table provided.>*

*The table below is a specific list of the personnel who may be members of Project teams and SCM teams along with their assigned roles and responsibilities as they relate to SCM. The Roles defined herein can sometimes be overlapped with other roles and responsibilities depending on the environment. In addition, one person allocated for a specific role as listed below may often have the responsibility of other roles.*

| *<Named Project(s)>* ***Role*** | *<Named Project(s)>* ***Responsibility*** |
| --- | --- |
| *Program Manager/*  *Project Management*  *Neel Vyawahare* | * *Develops and maintains artifacts following proper version control procedures using the SCM Procedures and work instructions for each Product being worked as part of the Program/Project.* * *Ensures proper execution of the SCM Plan Standard.* * *Oversees the SCM process.* * *Assesses and evaluates all other change requests.* * *Establish appropriate Change Control Board (CCB).* * *Submit CCB baseline information.* * *Identify dependent projects.* * *Establish/revise required artifacts.* * *Creation of SCM Procedures and work instructions for each VA product they are assigned.* |
| *Software Configuration Manager*  *Revati Lachyan* | * *Educates project team members in SCM “best practices.”* * *Develops and maintains SCM Procedures and work instructions for each VA product they are assigned.* * *Establishes, promotes, and releases baselines.* * *Performs or validates interim and final builds.* * *Prepares release package, release archives and Version Description Documents (VDD).* * *Accountable for instituting the established processes and reporting progress statistics based on change requests.* * *Identifies product baselines as necessary of all products within their assigned Projects.* * *Responsible for SCM audits and necessary status accounting related to the product.* * *Conducts audits at scheduled milestones.* |
| *Development Manager/Leads*  *Kshitij Yadav* | * *Develops and maintains artifacts following proper version control procedures using the SCM Procedures and work instructions.* * *Submits build/release requests.* * *Coordinates development activities and assigns tasks.* * *Ensures all SCM Procedures and work instructions are implemented and followed for all software, documentation, and/or any other components for which they are responsible.* * *Ensures all developers’ work within the specified SCM process and related guidelines as specified in the SCM Procedures and work instructions.* * *Attends the CCB meetings and provide technical details, as required.* |
| *Developers/System Administration/Functional/ Technical Analysts/DBAs/System Administration*  *Neel Vyawahare* | * *Develops and maintains artifacts following proper version control procedures using the SCM Procedures and work instructions.* * *Maintain accurate, detailed information for all assigned change requests (CRs), in the CR database, related to the applicable development detail of the CRs lifecycle.* * *Provide impact analysis reporting for the CCB approved problems or changes, including documentation of suggested solutions to facilitate CCB disposition activities.* * *Documentation of build, release, and installation instructions.* |
| *Software Change Manager*  *Revati Lachyan* | * *Develops and maintains artifacts following proper version control procedures using the SCM Procedures and work instructions.* * *Governing body for reviewing and approving change requests under the SCM Procedures and work instructions.* |
| *Technical Writer*  *Kshitij Yadav* | * *Develops technical deliverable documentation to support the software deliverables.* * *Provides editing, formatting, and graphics support for documentation.* * *Develops and maintains artifacts following proper version control procedures using the SCM Procedures and work instructions.* |
| *Software Quality Assurance Manager*  *Neel Vyawahare* | * *Develops and maintains artifacts following proper version control procedures defined in the SCM Procedures and work instructions.* * *Ensures all SQA Analysts work within the SCM Procedures and work instructions.* * *Verifies that only SCM-approved deliverables are installed into the test environment(s).* * *Ensures that SQA Analysts are always testing from official SCM deliverables.* * *Attends CCB meetings and provides testing details, as required.* * *Reviews status accounting related to the project.* * *Reviews deliverable artifacts.* |
| *Software Quality Assurance Analysts/ Testing Analyst/*  *Kshitij Yadav* | * *Develops and maintains artifacts following proper version control procedures using the SCM Procedures and work instructions.* * *Responsible for testing installed releases, as SCM provides releases from development.* * *Update CRs assigned to them according to test activity results.* * *Determines Pass/Fail for each CR scheduled for a release.* * *Opens CRs (defect and or enhancements) for any newly discovered problems during testing.* |
| *Release Manager/ Implementation Team/ EVS/Operations Team/*  *Revati Lachyan* | * *Develops and maintains artifacts following proper version control procedures using the SCM Procedures and work instructions document.* * *Coordinates the release and deployment of software to the existing sites and the newly activated sites following SCM Procedures and work instructions.* * *Assures products meet all exit criteria prior to release* * *Assures change control and SCM processes have been followed as defined in the SCM Procedures and work instructions.* |
| *Process Engineer*  *Neel Vyawahare* | * *Develops and maintains artifacts following proper version control procedures using the SCM Procedures and work instructions.* * *Guides the Team members in following the EPG published process maps.* |

# CONFIGURATION IDENTIFICATION

*<This section describes the Configuration Identification of the Software Product and providing a unique identity to the product, it’s components, and associated documentation, including the definition of appropriate level of identification. In order to identify the configuration item(s)(CI)s that are to be placed under SCM control, the SCM Manager must understand that Configuration Identification is the process of selecting the CIs and the development items subject to Change Control for a product, assigning unique identifiers to them, and recording their functional and physical characteristics in technical documentation.*

*The following items are subject to configuration identification for software products as per the SCM Plan Standard and are to be placed under SCM control:*

* *Products that are delivered to the customer*
* *Designated internal work products, including source code used to generate the deliverable*
* *Commercial off the Shelf (COTS) products*
* *Non Developmental Items (NDI) products*
* *Tools*
* *Other items that are used in creating and describing these work products, including documentation describing the function and physical requirements and characteristics of the product*

*These items consist of the set of currently approved or conditionally approved technical documentation, source code, executable images, and object files that identify and describe the functional and physical characteristics of the application.*

***Commercial off the Shelf (COTS) products***

*A COTS item is defined as a commercial item that is of a type customarily used by the general public or by non-governmental entities for purposes other than governmental purposes, and:*

* *Has been sold, leased, or licensed to the general public; or has been offered for sale, lease, or license to the general public*
* *Has been sold or offered for sale in substantial quantities in the commercial marketplace*
* *Has been offered to the Government, under a contract or subcontract at any tier, without modification, in the same form in which it is sold in the commercial marketplace*

*COTS items shall be identified within the system configuration by the manufacturers name, item identification, and version in sufficient detail to allow re-acquisition of the identical item. If a COTS item is changed in such a manner that it no longer meets the definition of COTS, the item must be reclassified by its new classification.*

***Non Developmental Items (NDI) products***

*An NDI is defined as any COTS item that requires only minor tailoring of a type customarily available in the commercial marketplace, and is within the normal function of the COTS item. This tailoring does not include modification or customization beyond what is normally provided in the commercial marketplace and is outside of the provider’s normal pricing structure.*

*NDI items shall be identified within the system configuration by the manufacturers name, item identification, version, and tailoring in sufficient detail to allow re-acquisition of the identical item. If a NDI item is changed in such a manner that it no longer meets the definition of NDI the item must be reclassified by its new classification*

***Modified Item***

*A modified item is defined as a COTS or GOTS item which is customized for a specific purpose and to meet specific requirements beyond the normal function of the COTS or GOTS item is defined as a Modified item*

***Third Party Item***

*A Third Party Item is defined as a new item or modified item developed by a subcontractor for a specific purpose and to meet specific requirements.*

***Developmental Item***

*A Developmental Item is defined as a new item or modified item developed for a specific purpose and to meet specific requirements.*

|  |  |
| --- | --- |
| COTS USED |  |
| NDI USED | HTML,ANGULAR JS,JQUERY,PHP |
| MODIFIED ITEMS | JSON |
| THIRD PARTY ITEMS | NOT NEEDED |
| DEVELOPMENTAL PRODUCTS | ANIMATION IN JQUERY |

# COMPONENT SPECIFICATION: GOAL-1

|  |  |
| --- | --- |
| ***Component Name*** | Jobseekers Profile Creation |
| ***Audience*** | Jobseekers |
| ***Responsibilities*** | To create the job seeker profile so that we can store the information of jobseeker. |
| ***Processing*** | 1. Create a UI 2. Validate jobseeker information 3. Validate jobseeker documents 4. Discard documents, if fake 5. Create database 6. Find number of interested jobseekers 7. Sort them according to field of interest 8. Check company criterion 9. Confirm whether mandatory information has been filled 10. Useful to company to select candidates |
| ***Reference*** | Create Jobseekers Profile |
| ***Constraints*** | Inappropriate and Invalid data of Jobseekers |
| ***Composition*** | Related the subsystem 1st and 2nd module |
| ***Resources*** | From the valid documents of jobseekers |
| ***Interactions*** | Related to components 2nd to 12th |
| ***Interface/Tasks*** | To validate the jobseekers data |

## Procedure Definition Language (Pseudo-code):

INTERFACE: Create UI

DO

Generate form to accept data

Accept new jobseeker profile inputs

Accept relevant documents from the jobseeker

Count number of jobseekers who have applied for the job

Create database to store details of jobseeker

Categorize the jobseekers according to field of interest

Present the jobseeker data to the company

BEGIN

CREATE DATABASE FOR JOBSEEKER

DECLARE N AS NUMBER OF JOBSEEKERS

IF(DATA:= ACCEPT DATA) THEN

INSERT DATA IN DATABASE

N=N+1;

ELSE

OUTPUT(‘DATA NOT FOUND’);

RETURN 0

IF(DOCUMENTS ACQUIRED:=TRUE)

INSERT DOCUMENTS IN DATABASE

ELSE

OUTPUT(‘DOCUMENT NOT FOUND’);

RETURN 0

LOOP(1 TO N)

FETCH WORK AREA

GROUP DATA ACCORDING TO WORK AREA

END LOOP

END

# COMPONENT SPECIFICATION: GOAL-1 OBJECTIVE-1

|  |  |
| --- | --- |
| ***Component Name*** | **Jobseekers data collection** |
| ***Audience*** | Jobseekers |
| ***Responsibilities*** | To collect details of the data of jobseekers who applied for different posts |
| ***Processing*** | 1. Request creation of jobseeker profile  2. Accept inputs  3. Create basic database  4. Link UI with database  5. Populate database  6. Validate format  7. Count profiles  8. Generate backup  9. Share backup with team  10. Launch profile |
| ***Reference*** | Collect Jobseekers data |
| ***Constraints*** | Inappropriate data of the jobseekers |
| ***Composition*** | Related to subsystem 1st and module 1st |
| ***Resources*** | From the jobseekers data |
| ***Interactions*** | Related to components 1st to 10th |
| ***Interface/Tasks*** | Validation of jobseekers data applied for the company |

## Procedure Definition Language (Pseudo-code):

INTERFACE: Collection of jobseekers

DO

Create a form to accept data

Accept new jobseeker profile inputs

Store data in database

Count number of jobseekers who have applied for the job

BEGIN

DECLARE N AS NUMBER OF JOBSEEKERS

IF(DATA:= ACCEPT DATA) THEN

STORE DATA IN DATABASE

N=N+1;

ELSE

OUTPUT(‘DATA NOT FOUND’)

RETURN 0

END

# COMPONENT SPECIFICATION: GOAL-1 OBJECTIVE-2

|  |  |
| --- | --- |
| ***Component Name*** | **Store of Data Jobseekers** |
| ***Audience*** | Company |
| ***Responsibilities*** | To store the data of jobseekers for company usages |
| ***Processing*** | 1.Create a UI  2.Validate jobseeker information  3. Validate jobseeker documents  4. Discard documents, if fake  5. Create database  6. Find number of interested jobseekers  7. Sort them according to field of interest  8. Check company criterion  9. Confirm whether mandatory information has been filled  10. Useful to company to select candidates |
| ***Reference*** | Store Jobseekers data |
| ***Constraints*** | Problem for fetching and retrieving of the data |
| ***Composition*** | Related to which Sub-system 1st and module 1st |
| ***Resources*** | Data insert by the jobseekers |
| ***Interactions*** | Related to components 6th to 10th |
| ***Interface/Tasks*** | State the functions that the interface performs other than the computation. |

## Procedure Definition Language (Pseudo-code):

INTERFACE: Store Jobseekers data

DO

Create database for jobseeker information

Segregate candidates according to work area

Obtain academic achievements of jobseeker

Filter eligible candidates

Remove the unnecessary information of the unselected candidates

BEGIN

CREATE DATABASE

FOR EVERY ROW IN DATABASE

FETCH WORK AREA

SORT CANDIDATE ENTRY ACCORDING TO WORK AREA;

FOR EVERY ROW IN DATABASE

FETCH MARKS

IF(MARKS>=ELIGIBILITY CRITERION)

CANDIDATE\_SELECTION:=TRUE;

ELSE

CANDIDATE\_SELECTION:=TRUE;

FOR EVERY ROW IN DATABASE

IF(CANDIDATE\_SELECTION==FALSE)

THEN

DROP ENTIRE ROW;

END

# COMPONENT SPECIFICATION: GOAL-2

|  |  |
| --- | --- |
| ***Component Name*** | **Test Assets Building** |
| ***Audience*** | Jobseekers |
| ***Responsibilities*** | By creating a variety of questions, company can check the knowledge and excellence of the jobseeker in different fields. |
| ***Processing*** | 1.Test knowledge of candidates  2. Collect questions  3. Sort questions  4. Create questionnaire  5. Verify questions  6. Discuss marking scheme with the company  7. Check the excellence level of the candidate  8. Maintain different time slots  9. Maintain time limit  10. Maintain connectivity |
| ***Reference*** | Build Test Assets |
| ***Constraints*** | To maintain the difficulty level of questions |
| ***Composition*** | Related to sub-system 1st and module 2nd |
| ***Resources*** | Questionnaire file collected of various set of questions |
| ***Interactions*** | Related to components 12th  to 15th |
| ***Interface/Tasks*** | Marking scheme of random test |

## Procedure Definition Language (Pseudo-code):

INTERFACE: Name of the Interface

DO

Create a database for storing questions

Fetch the questions

Classify the questions according to the area of working

Fetch the MCQ options

Sort questions according to difficulty level

Provide timer for online test

Generate a questionnaire

BEGIN

CREATE A DATABASE

FOR ALL DATA AVAILABLE

INSERT QUESTIONS INTO DATABASE

INSERT OPTIONS INTO DATABASE

INSERT ANSWERS INTO DATABASE

FOR ALL ROWS IN DATABASE

FETCH WORK AREA

SORT QUESTIONS ACCORDING TO WORK AREA;

FOR ALL ROWS IN DATABASE

FETCH DIFFICULTY LEVEL

SORT QUESTIONS IN WORK AREA ACCORDING TO DIFFICULTY LEVEL;

FETCH NUM AS NUMBER OF QUESTIONS

WHILE(COUNT<=NUM)

FETCH QUESTIONS;

ADD TIMER;

END

# COMPONENT SPECIFICATION: GOAL-2 OBJECTIVE-1

|  |  |
| --- | --- |
| ***Component Name*** | **Questions collection** |
| ***Audience*** | Jobseekers |
| ***Responsibilities*** | Maintain the level of the questions for choosing an appropriate candidates |
| ***Processing*** | 1. Create database  2. Add proper columns  3. Obtain eligibility of candidate  4. Ensure correct placement of data  5. Update database  6. Link UI to database  7. Organize data  8. Analyze information  9. Secure system  10. Record observations |
| ***Reference*** | Collect Questions |
| ***Constraints*** | To maintain the difficulty level of the questions |
| ***Composition*** | Related to sub-system 1st and module 2nd |
| ***Resources*** | Questionnaire file collected of various set of questions |
| ***Interactions*** | Related to components 12th to 15th |
| ***Interface/Tasks*** | Selection of the questions for the random online tests |

## Procedure Definition Language (Pseudo-code):

DO

Create a database for storing questions of online test

Classify the questions according to the area of working

Obtain the job criteria for selection

Confirm that cut-off marks are less than max marks of the online test

BEGIN

CREATE QUESTION DATABASE

FOR ALL ROWS IN QUESTION

FETCH AREA OF WORK

SORT QUESTION ACCORDING TO AREA OF WORK

FETCH MAX\_MARKS;

FETCH CUT\_OFF;

IF(MAX\_MARKS<CUT\_OFF)

OUTPUT(“ERROR”);

FOR ALL DATA AVAILABLE

INSERT QUESTIONS INTO DATABASE

INSERT OPTIONS INTO DATABASE

INSERT ANSWERS INTO DATABASE

END

# COMPONENT SPECIFICATION: GOAL-2 OBJECTIVE-2

|  |  |
| --- | --- |
| ***Component Name*** | **Question selection** |
| ***Audience*** | Jobseekers |
| ***Responsibilities*** | Select the level of questions for online test conducted by the company. |
| ***Processing*** | 1. Collect question database 2. Fetch number of questions asked 3. Fetch number of questions asked from various difficulty levels 4. Fetch number of questions asked from various subjects 5. Confirm the answers of questions 6. Fetch time allotted 7. Confirm that time is manageable 8. Provide timer 9. Select questions 10. Generate a questionnaire |
| ***Reference*** | Select Questions |
| ***Constraints*** | To maintain the difficulty level of while questions for online random test |
| ***Composition*** | Related to sub-system 1st and module 2nd |
| ***Resources*** | Questionnaire file which have collection of various set of questions |
| ***Interactions*** | Related to components 12th to 15th |
| ***Interface/Tasks*** | Marking scheme of random test |

## Procedure Definition Language (Pseudo-code):

DO

Fetch question database

Provide timer for the test

Filter these questions according to area of interest

Filter questions according to level of difficulty

BEGIN

FETCH QUESTION

FOR ALL ROWS IN DATABASE

FETCH WORK AREA

SORT QUESTIONS ACCORDING TO WORK AREA;

FOR ALL ROWS IN DATABASE

FETCH DIFFICULTY LEVEL

SORT QUESTIONS IN WORK AREA ACCORDING TO DIFFICULTY LEVEL;

FETCH NUM AS NUMBER OF QUESTIONS

WHILE(COUNT<=NUM)

SELECT RANDOM QUESTIONS;

ADD TIMER;

END

# COMPONENT SPECIFICATION: GOAL-3 Notify Job Selectors

|  |  |
| --- | --- |
| ***Component Name*** | **Job Selectors Notification** |
| ***Audience*** | Jobseekers |
| ***Responsibilities*** | Notify the jobseekers about the recruitment process and time to time updates in it. |
| ***Processing*** | 1. .Announce the result of online test in specified time period  2. To give time to time notifications about progress of selection process  3. To inform the candidates about their result (selected /not selected)  4. Create a set-up of online mail for the company  5. To give updates about the newly created vacancies to the unselected candidates  6.Uploading the results on company’s official website  7.To check suggestion obtain from mail process  8. To check the connectivity of the mail system  9.To solve the queries of the candidate through mail process  10.To check feedback obtain from mail process |
| ***Reference*** | Job selectors Notification |
| ***Constraints*** | Slow net connectivity, e-mail error |
| ***Composition*** | Related to subsystem 1 and 3rd module |
| ***Resources*** | Job selector database along with the online results |
| ***Interactions*** | Related to components 4th to 10th and 15th to 18th |
| ***Interface/Tasks*** | Notify the unselected candidates about future vacancies created in the company |

## Procedure Definition Language (Pseudo-code):

INTERFACE: Selection Of Candidates

BEGIN

X=Search the jobseekers name

Y=Search the results of jobseekers

Results criteria of online test

N=Total number of the candidates

Flag=0

While(X!=N)

{

If(X appear for the exam)

{

If(y>Results Criteria)

Candidate is selected

Flag=1

Else

Candidate is not selected

}

Else

Candidate is discarded

X++

}

If(Flag==1)

Send mail as the selection for the next level with result

Else

Send mail as a better luck next time with the results

END

# COMPONENT SPECIFICATION: GOAL-3 OBJECTIVE-1

|  |  |
| --- | --- |
| ***Component Name*** | **Results of Test** |
| ***Audience*** | Jobseekers and Company |
| ***Responsibilities*** | To declare the result of online tests of the recruitment process for the company. |
| ***Processing*** | 1. To conduct the online test for recruiting process  2.To create different slots of recruiting process  3.Formulate test assets of online recruiting process  4.To maintain network connectivity speed  5.checking of security level of online recruiting process  6.Mail to all candidates about time to time updates of recruiting process  7.Maintain level of questions in online recruiting process  8.Maintain time limit of online test  9.Uploading results in specific time  10.Reverify the results of online test |
| ***Reference*** | Test Results |
| ***Constraints*** | Loss of connectivity while conducting or announcing the results |
| ***Composition*** | Related to subsystem 1 and 3rd module |
| ***Resources*** | Job selector database along with slot of announce of the test |
| ***Interactions*** | Related to components 4th to 10th and 15th to 18th |
| ***Interface/Tasks*** | Uploading the results of online test to the company’s official website |

## Procedure Definition Language (Pseudo-code):

INTERFACE: Result of the test

BEGIN

X=Search the jobseekers name

Y=Search the results of jobseekers

N=Total number of the candidates

Flag=0

While(X!=N)

{

If(X appear for the exam)

Results get from online test

Flag=0

Else

No results for the applied candidates

X++

}

If(Flag==1)

Send mail of the results to candidates

Else

Send mail of the results to unselected candidates

END

# COMPONENT SPECIFICATION: GOAL-3 OBJECTIVE-2

|  |  |
| --- | --- |
| ***Component Name*** | **Future Updates** |
| ***Audience*** | Jobseekers i.e. mostly unselected candidates |
| ***Responsibilities*** | Notify the fresher’s and unselected candidates |
| ***Processing*** | 1. .Announce the result of online test in specified time period  2. To give time to time notifications about progress of selection process  3. To inform the candidates about their result (selected /not selected)  4. Create a set-up of online mail for the company  5. To give updates about the newly created vacancies to the unselected candidates  6.Uploading the results on company’s official website  7.To check suggestion obtain from mail process  8. To check the connectivity of the mail system  9.To solve the queries of the candidate through mail process  10.To check feedback obtain from mail process |
| ***Reference*** | Future Updates |
| ***Constraints*** | Slow net connectivity or loss of connectivity |
| ***Composition*** | Related to subsystem 1 and 3rd module |
| ***Resources*** | Job selector database along with the online results |
| ***Interactions*** | Related to components 4th to 10th and 15th to 18th |
| ***Interface/Tasks*** | Notify the unselected candidates about future vacancies created in the company |

## Procedure Definition Language (Pseudo-code):

INTERFACE: Result of the test

BEGIN

X=Search the jobseekers name

Y=Search the results of jobseekers

N=Total number of the candidates

Flag=0

Y[];

While(X!=N)

{

If(X appear for the exam)

Results get from online test

Flag=0

Else

No results for the applied candidates

X++

}

If(Flag==1)

Send mail of the results to candidates

Else

Send mail of the results to unselected candidates

If(Flag==1)

Candidates selected for the next level of the process

Else

Candidates mail as better luck next time

Y[]=x[i];

For(j=0;j<y[i];j++)

Mail the future vacancies generated in the company

EN

# COMPONENT SPECIFICATION: GOAL-4 Create Job Statics

|  |  |
| --- | --- |
| ***Component Name*** | **Job Statics creation** |
| ***Audience*** | Company, Jobseekers |
| ***Responsibilities*** | To create job statics of the online recruitment process for the company |
| ***Processing*** | 1. Generate Company job statistics  2.Create the statistics of the available post in company and the required field  3. To check the requirement of the company.  4. Get statistics of the available post.  5.Check to fulfil the company requirements through job statistics  6.Company related notification needs to be communicated  7.Test related notification needs to be communicated  8.Notify the company about the Job Statics report  9.notify the jobseeker related to future updates  10.Inform the next recruiting process according to statics |
| ***Reference*** | Create Job Statics |
| ***Constraints*** | Incorrect information of available vacancies |
| ***Composition*** | Related to sub-system 2 and 1st module |
| ***Resources*** | Previous Statics report and newly created vacancy report |
| ***Interactions*** | Related to components 1st to 6th |
| ***Interface/Tasks*** | To get the information about the available vacancies in the company in compatible manner. |

## Procedure Definition Language (Pseudo-code):

INTERFACE: Job Statics

X=no of candidates selected

Y=unselected candidates

N=total number of the candidates

Z=no of the years

Ratio1=x/N

Ratio2=y/N

Final ratio=ratio1/ratio2

P=no of posts

M=ratio/p

This m per year and create the graph of this per year

X co-ordinate shows the no of year

Y co-ordinate show the ratio of ratio per posts

# COMPONENT SPECIFICATION: GOAL-4 OBJECTIVE-1

|  |  |
| --- | --- |
| ***Component Name*** | **Job Statics Report** |
| ***Audience*** | Company |
| ***Responsibilities*** | To create report of job statics of the recruitment process for analyzing the statics of the company |
| ***Processing*** | 1.Fetch the jobseeker database  2. Generate a graph with these details  3.Find the number of the selected jobseekers  4.Formulate this information in the graph  5. Record the number of vacancies available in the company  6.Check the graph using random values  7.Generate a template for sending the information  8. Notify the unselected jobseekers by the vacant posts  9. Finalize the contents of the graph  10. Provide the graph to the company |
| ***Reference*** | Job statics Report |
| ***Constraints*** | Incorrect information of available vacancies |
| ***Composition*** | Related to sub-system 2 and 1st module |
| ***Resources*** | Online recruitment process data |
| ***Interactions*** | Related to components 1st to 6th |
| ***Interface/Tasks*** | To get the information about the available vacancies and analyze as well as comparison with previous process stuff. |

## Procedure Definition Language (Pseudo-code):

INTERFACE: Job Statics

X=no of candidates selected

Y=unselected candidates

N=total number of the candidates

Z=no of the years

Ratio1=x/N

Ratio2=y/N

Final ratio=ratio1/ratio2

P=no of posts

M=ratio/p

This m per year and create the graph of this per year

X co-ordinate shows the no of year

Y co-ordinate show the ratio of ratio per posts

# COMPONENT SPECIFICATION: GOAL-4 OBJECTIVE-2

|  |  |
| --- | --- |
| ***Component Name*** | **Test Results Examination** |
| ***Audience*** | Company |
| ***Responsibilities*** | To examine the results of online recruitment process for creation of job statics report for the company |
| ***Processing*** | 1.Obtain the jobseeker database  2. Obtain the result of online test  3. Gather the number of applicants selected  4. Find the ratio of applicants selected  5. Confirm whether this ratio is acceptable  6. Choose the problem area in the question set  7.Generate changes in the questionnaire as per the requirement  8. Duplicate these changes in the question database  9. Check whether area of work are preserved  10.Forward the changed question database to the company |
| ***Reference*** | Examine Test Results |
| ***Constraints*** | In correction in the online test results |
| ***Composition*** | Related to sub-system 2 and 1st module |
| ***Resources*** | Result of random test and no of applicants |
| ***Interactions*** | Related to components 1st to 6th |
| ***Interface/Tasks*** | It is one of the important basis while formation of job statics report of the recruitment process |

## Procedure Definition Language (Pseudo-code):

INTERFACE: Job Statics

X[]=Presents candidates selected

Y=Not Present Candidates

N=total number of the candidates

Z=no of the years

R[]=results

If(i!=N)

{

If(x[])

{

If(R>company decide criteria)

Add this information in analysis of graph

else

Add this as a unselected candidates

X[]++

}

}

Else

No of absent candidates information

Add this information in the creation of report or staticis

# COMPONENT SPECIFICATION: GOAL-5

|  |  |
| --- | --- |
| ***Component Name*** | **Random Test Assets** |
| ***Audience*** | Company |
| ***Responsibilities*** | To create a questionnaire having random questions from a given set of questions of varying difficulty |
| ***Processing*** | 1. Collect questions of different difficulty levels 2. Pick appropriate number of questions 3. Select the questions randomly 4. Discuss about topics for the test 5. Validate the answer key 6. Confirm questions do not repeat 7. Create record 8. Judge the intelligence of the candidates 9. Provide the test to the jobseeker 10. Select appropriate candidate |
| ***Reference*** | Assets Random Test |
| ***Constraints*** | Invalid or inappropriate data of test assets |
| ***Composition*** | Related to sub-system 2nd and module 2nd |
| ***Resources*** | Questionnaire form of the various level of difficulty set of questions |
| ***Interactions*** | Related to components 1st to 3rd and 6th to 9th |
| ***Interface/Tasks*** | To decide the marking scheme of random test assets generated by the developer |

## Procedure Definition Language (Pseudo-code):

INTERFACE: Name of the Interface

Do

Fetch question from database

Sort them according to difficulty level

Calculate score and return result

BEGIN

Fetch Questions from database

Ascertain questions’ correctness

Decide question weight age

Sort questions according to difficulty level.

Arrange questions according to marks.

Select number of options for each test.

Collect response of jobseeker

Compare response with correct answer

Calculate score

Return score

Else return null

End

# COMPONENT SPECIFICATION: GOAL-5 OBJECTIVE-1

|  |  |
| --- | --- |
| ***Component Name*** | Questionnaire format |
| ***Audience*** | company |
| ***Responsibilities*** | To decide which type of questions included in the random test included from the questions bank. |
| ***Processing*** | 1.Fetch questions  2. Sort questions  3. Decide total number of questions  4. Decide marks  5. Decide test pattern  6. Distribute question set  7. Inform test pattern  8. Discuss marking scheme  9. Design final test  10. Launch test |
| ***Reference*** | Format Questionnaire |
| ***Constraints*** | Loss of questionnaire file |
| ***Composition*** | Related to which sub-system and module 3 |
| ***Resources*** | File of questionnaire of various questions |
| ***Interactions*** | Related to components 1st to 3rd and 6th to 9th |
| ***Interface/Tasks*** | Use for random online test generation for the recruitment process |

## Procedure Definition Language (Pseudo-code):

INTERFACE: Name of the Interface

Do:

Fetch Questions from database

Ascertain questions’ correctness

Sort questions according to difficulty level

Begin

Fetch Questions from database

Ascertain questions’ correctness

Decide question weight age

Sort questions according to difficulty level.

Arrange questions according to marks.

Select number of options for each test.

End;

# COMPONENT SPECIFICATION: GOAL-5 OBJECTIVE-2

|  |  |
| --- | --- |
| ***Component Name*** | **Test Assets processing** |
| ***Audience*** | Company |
| ***Responsibilities*** | State computational abilities here. |
| ***Processing*** | 1. Distribute question set  2. Check company requirement  3. Release test format  4. Send finalized questionnaire  5. Make required changes  6. Launch test  7. Communicate to the company  8. Decide test time  9. Conduct trial test  10. Launch test |
| ***Reference*** | Process test assets |
| ***Constraints*** | Disconnection of net connectivity |
| ***Composition*** | Related to sub-system 2nd and module 2nd |
| ***Resources*** | Question Bank |
| ***Interactions*** | Related to components 1st to 3rd and 6th to 9th |
| ***Interface/Tasks*** | State the functions that the interface performs other than the computation. |

## Procedure Definition Language (Pseudo-code):

INTERFACE: Process test assets

Do:

Launch test

Calculate score and return result

Notify jobseeker

Begin:

Launch test

Collect response of jobseeker

Compare response with correct answer

Calculate score

Return score

End;

# COMPONENT SPECIFICATION: GOAL-6

|  |  |
| --- | --- |
| ***Component Name*** | **Terms and conditions** |
| ***Audience*** | Selected candidates |
| ***Responsibilities*** | To form the project joining report for the selected candidate according to policies decided by the company |
| ***Processing*** | 1. Receive polices follow up 2. Collect minimum requirements 3. Discussion about terms and conditions 4. Explanation of the policies maintain by the company 5. Verification of the documents 6. Explain general overview 7. Form the process client report 8. Build term matrix 9. Decide the time span for the selected candidate 10. Take time to time updates of polices |
| ***Reference*** | Terms and conditions |
| ***Constraints*** | No major constraints |
| ***Composition*** | Related to Sub-system 2nd and module 3rd |
| ***Resources*** | Database of jobseekers and final test results |
| ***Interactions*** | Name the other components with which the component interacts |
| ***Interface/Tasks*** | Project Joining report of the selected candidates |

## Procedure Definition Language (Pseudo-code):

INTERFACE: Project joining results

*Begin:*

Fetch terms and conditions of company

Send notification to jobseeker about terms and conditions

Send notification to jobseeker about package he will be paid

Notify jobseeker about allowances he will be provided

Build terms matrix for better understanding of terms and conditions

Create table in html on last page

END

# COMPONENT SPECIFICATION: GOAL-6 OBJECTIVE-1

|  |  |
| --- | --- |
| ***Component Name*** | **Job terms application** |
| ***Audience*** | Selected candidates |
| ***Responsibilities*** | To decide the polices of the company for the recruitment process |
| ***Processing*** | 1. Communicate with company  2. Obtain terms and condition  3. Obtain package information  4. Provide package information  5. Provide allowance details  6. Form basic terms matrix  7. Decide matrix content  8. Inform the company  9. Finalize format  10. Release report |
| ***Reference*** | Apply Job Terms |
| ***Constraints*** | Invalid data of the candidates |
| ***Composition*** | Related to Sub-system 2nd and module 3rd |
| ***Resources*** | Database of jobseekers and final test results |
| ***Interactions*** | Related to the components 1st to 6th |
| ***Interface/Tasks*** | Project Joining report of the selected candidates |

## Procedure Definition Language (Pseudo-code):

*Apply Job Terms*

Do:

Obtain company terms and conditions

Notify jobseeker about terms and conditions

Create format of terms and conditions

Begin:

Obtain terms and conditions of company

Create notification to jobseeker about terms and conditions

Create notification to jobseeker about package he will be p

# COMPONENT SPECIFICATION: GOAL-6 OBJECTIVE-2

|  |  |
| --- | --- |
| ***Component Name*** | **Joining Profile Creation** |
| ***Audience*** | Selected candidates |
| ***Responsibilities*** | To form the joining profile of selected candidates selected from the final recruitment process |
| ***Processing*** | 1. Decide company policies  2. Create joining report  3. Verify documents  4. Create profiles of employees  5. Validate information  6. Create backup  7. Create the terms and conditions report  8. Create the process-client report  9. Finalise the UI  10. Update UI as per requirement |
| ***Reference*** | Create Joining profile |
| ***Constraints*** | No major constraints |
| ***Composition*** | Related to Sub-system 2nd and module 3rd |
| ***Resources*** | Database of jobseekers and final test results |
| ***Interactions*** | Related to the components 1st to 6th |
| ***Interface/Tasks*** | Project Joining report of the selected candidates |

## Procedure Definition Language (Pseudo-code):

INTERFACE: Project joining results

Notify jobseeker about allowances

Build terms matrix

*Distribute terms and condition report*

*Process client report*

*Begin:*

Notify jobseeker about allowances he will be provided

Build terms matrix for better understanding of terms and conditions

*Distribute terms and condition report by sending notification*

Accept application provided by jobseeker

End;

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

**CS 303: Software Engineering Laboratory**

Assignment No: 9

**Fresher’s Recruitment System**

**System Construction**

***22-11-2017***

***Version 1.0***

|  |  |  |  |
| --- | --- | --- | --- |
| Project Group Information | | | |
| Roll. No. | **Gr. No.** | **Name** | **Roles** |
| 36 | **151373** | **Revati Lachyan** | **Job Seeker** |
| 38 | **151745** | **Neel Vyawahare** | **Job Seeker** |
| 43 | **151762** | **Kshitij Yadav** | **Company Manager** |

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

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

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# 1. INTRODUCTION

# *The software engineering community realized that software architecture is not only about structures (components and interfaces), but also 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.*

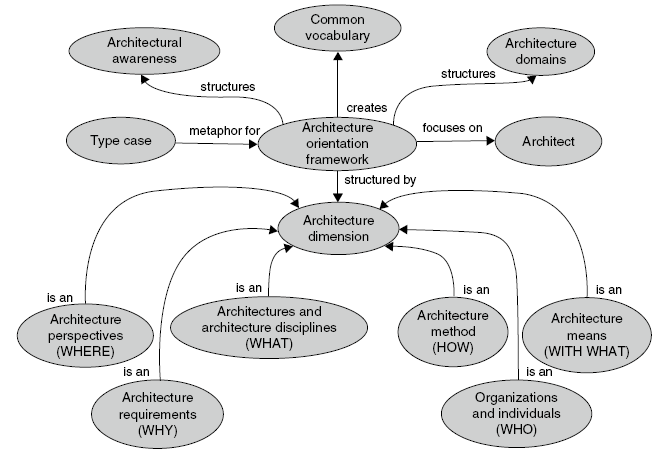
# *Soni et al. argue that the four different architectures they distinguished are needed because of the growing complexity of software throughout history (see Figure 1.3). Initially, only the code architecture was required. The module and execution architecture became necessary when systems became larger 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 reason 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 parts, 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*



# 2. ARCHITECTURE OBJECTIVES

* ***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 understood. 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.*
* ***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.*
* ***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.*
* ***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 carefully 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.*
* ***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 parts 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.*
* ***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*

# 3. 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:*

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

|  |  |
| --- | --- |
| Layer-1 | User Interfaces of Jobseekers |
| Purpose | This is the layer used for creation of jobseekers UI |
| Related Components | Goal 1 and Goal 6 |
| Software Interfaces | Layer 3 and Layer 4 Interfaces |
| Composition Style | **Specialization** |
| Communication Pattern | **Vertical** |
| Implementation Steps | 1. Create UI of System 2. Create Questionnaire set 3. Create Project Joining Report 4. Create Job Statistics Report 5. Create Random Test |

|  |  |
| --- | --- |
| Layer-2 | Data Processing of Questionnaire and Jobseekers |
| Purpose | This Layer is used for data processing of jobseekers and questionnaire. |
| Related Components | Goal 5 components |
| Software Interfaces | Layer 3 and Layer 4 Interfaces |
| Composition Style | **Generalization** |
| Communication Pattern | **Vertical** |
| Implementation Steps | 1. Pre-Processing Data  2. Statistical Modelling  3 Process questionnaire set  4 Processing of jobseekers data for selection |

|  |  |
| --- | --- |
| Layer-3 | Queries Processing For selection Process Of online Recruitment Process |
| Purpose | The User Query Processing is used for selection of candidates for next stage of recruitment process |
| Related Components | Goal 2 and Goal 3 components |
| Software Interfaces | Layer 3 and Layer 4 Interfaces |
| Composition Style | **Aggregation** |
| Communication Pattern | **Vertical** |
| Implementation Steps | 1. Fetch query For selection process  2. Display Jobseekers data  3 Fetch query for notify jobseekers  4 Use for difficulty level of random test |

|  |  |
| --- | --- |
| Layer-4 | Data Access Of Jobseekers and Questionnaire |
| Purpose | The Data Access of jobseekers data. |
| Related Components | Goal 4 components |
| Software Interfaces | Layer 1 and Layer 4 Interfaces |
| Composition Style | **Specialization** |
| Communication Pattern | **Vertical** |
| Implementation Steps | 1. Filled information of jobseekers  2. Questionnaire set of online test  3 Filter Eligible Candidates  4 Filter Selected Questionnaire |

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

**CS 303: Software Engineering Laboratory**

Assignment No: 10

**Fresher’s Recruitment System**

**System Review and Acceptance**

**29-11-2017**

**!!br0ken!!****Version 1.0**

|  |  |  |  |
| --- | --- | --- | --- |
| Project Group Information | | | |
| Roll. No. | **Gr. No.** | **Name** | **Roles** |
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| 38 | **151745** | **Neel Vyawahare** | **Job Seeker** |
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# 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 also 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., unresolved 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 resolved and documented. If needed, follow the program’s or project’s defined decision-making processes to elevate and reconcile any issues encountered in resolving 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 resolved.*
* *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 associated with the peer review should indicate this transfer and are categorized as resolved, allowing the peer review to be closed.*
* *Resolve 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 associated with the peer review should indicate this transfer and are categorized as resolved, 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 tool 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 resources 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 tool in the agile toolkit.*

*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 reasons. 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 absolutely 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.*
* *Top-level software components of the software end item will be identified and described.*
* *Static relationships between top-level software components will be defined.*
* *Dynamic relationships between top-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.*
* *Top-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 | Create Job-seeker Profile |
| Purpose | This will ensure the reliability and correctness of system. |
| Target Audience | Customers |
| Status | Completed |
| Role: | **Customers** |
| Verification Steps | 1.Verify request creation of jobseeker profile |
|  | 2. Verify acceptance new jobseeker profile inputs |
|  | 3. Verify creation a basic database structure |
|  | 4. Verify linking the UI with the database |
|  | 5. Verify addition new records to the database |
|  | 6. Verify validation jobseeker Profile Format |
|  | 7. Verify counting of number of jobseekers |
|  | 8. Verify generation of backup of database of jobseeker information |
|  | 9. Verify sharing of database file with project team |
|  | 10. Verify Launch of Jobseeker profile |

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| Process-1 | Collect Job Seeker Data. |
| Purpose | Collect Player Statistics for creating player ranking index used to find transfer values. |
| Target Audience | Internal Stakeholders |
| Status | Completed |
| Role: | **Internal Stakeholders** |
| Verification Steps | 1.Verify Creation of UI to collect jobseeker details |
|  | 2.Verify acquiring of information criterion from the company |
|  | 3.Verify providing of UI for details to every jobseeker |
|  | 4. Verify set up a mandatory field set in the jobseeker UI |
|  | 5. Verify addition proper data types for the asked information |
|  | 6. Verify service of uploading documents in the jobseeker UI |
|  | 7. Verify easy way to enter dates in the information section |
|  | 8. Verify transferring of collected data for storage |
|  | 9. Verify creation of log file to record every change made in the system |
|  | 10. Verify the jobseeker data to the company |

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| --- | --- |
| Process-2 | Validate Collected Data. |
| Purpose | To keep the data relative and precise. |
| Target Audience | Developer |
| Status | On-going |
| Role: | **As a**developer |
| Verification Steps | 1.Validate confirmation of data in CV is same as data provided in the information section |
|  | 2. Validate confirmation that data is stored in the correct column |
|  | 3. Verify if a profile has been repeated |
|  | 4. Verify if the mandatory fields have been filled |
|  | 5. Validate the entered information by the jobseeker |
|  | 6. Validate delete of irrelevant information of unselected candidates after the selection |
|  | 7. Validate trueness of uploaded documents |
|  | 8.Verify Informing to the glitches to the respective jobseeker |
|  | 9. Verify Maintenance of record of the changes made to the database |
|  | 10.Verify recorded changes to the team |

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| Objective-2 | Preserve Job-seeker Data |
| Purpose | After the collection of data, this data is stored in a database for future references. If a candidate is selected, his information need not be asked for again. Even the data of non-selected candidates is stored to send future updates to them. |
| Target Audience | Internal Stakeholders |
| Status | Completed |
| Role: | **Internal Stakeholders** |
| Verification Steps | 1.Verify creation a database to store jobseeker information |
|  | 2.Verify providing proper column names to the database |
|  | 3.Validate if candidate is selected or not |
|  | 4.Verify whether data is entered in the correct database |
|  | 5. Validate Update database of jobseeker |
|  | 6. Verify linking of UI to jobseeker information database |
|  | 7. Verify organization the data into the system |
|  | 8.Verify categorization of the jobseekers according to field of interest |
|  | 9. Verify that the system is secure |
|  | 10.Validate recording of formulated changes in the database |

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| Process-1 | Access Stored Data |
| Purpose | This information of jobseekers stored in the database will be used for future references. We can convey the future updates regarding the company through data provided. Also, if any specific information is required regarding any employee, we can access the data. |
| Target Audience | Customers |
| Status | On-going |
| Role: | **Customers** |
| Verification Steps | 1.Verify referring to the jobseeker data during the actual selection |
|  | 2. Verify counting the number of jobseekers in the database |
|  | 3. Verify segregation of candidates according to given criterion by company |
|  | 4.Verify usage jobseeker data |
|  | 5.Verify that required changes in the information are mad |
|  | 6.Verify notification to the jobseeker if any wrong information is found |
|  | 7. Verify notification of changes to the project team |
|  | 8. Verify grouping of the candidates in the database with regard to their field of interest |
|  | 9. Verify maintenance a record of conduct of the candidate |
|  | 10.Verify addition of new records in the database |

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| Process-2 | Ascertain Data Correctness |
| Purpose | According to the criterion provided by the company, the information of the jobseeker is filtered. This helps to easily gather information of selected candidates. |
| Target Audience | Customers |
| Status | Completed |
| Role: | **Customers** |
| Verification Steps | 1.Verify obtaining of academic achievements of jobseeker |
|  | 2. Verify creation a new column in the jobseeker database |
|  | 3.Verify sorting of the marks and respective details of jobseekers |
|  | 4.Verify highlighting of the records of selected candidates |
|  | 5. Verify preservation of the separate tables regarding field of interest |
|  | 6.Verify that the system is made more secure |
|  | 7. Verify checking if the space available is sufficient |
|  | 8. Verify removal of the unnecessary information of the unselected candidates |
|  | 9.Verify preservation of the important information of the unselected candidates |
|  | 10.Validate sending of the updated database of jobseeker to the project team |

# VERIFICATION STEPS: GOAL-2

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| --- | --- |
| Objective-1 | Collect Questions |
| Purpose | The questions asked in the online test are set by the project team and selected randomly by the system. These question serve as a purpose to check the knowledge of the jobseekers |
| Target Audience | Developer |
| Status | On-going |
| Role: | **As a** *Developer* |
| Verification Steps | 1.Verify application for the questions for the online test |
|  | 2.Verify fetching of the questions |
|  | 3. Verify testing of the knowledge of the candidate for the desired post |
|  | 4. Verify discussion of the marking scheme with the project team |
|  | 5. Validate creation a database for storing questions of online test |
|  | 6.Verify addition of questions to the database |
|  | 7. Verify linking of jobseeker database with question database |
|  | 8.Verify securing the question database |
|  | 9. Verify informing to the jobseekers about the selection criteria |
|  | 10. Verify providing these questions for the selection process |

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| Process-1 | Collect Question Set |
| Purpose | The online test to be set would have to test the candidates in various areas of information required for the job. These questions will be set by the project team and will be asked to the candidates, through the system |
| Target Audience | Developer |
| Status | On-going |
| Role: | **As a**Developer |
| Verification Steps | 1.Verify application for the question set from the project team |
|  | 2.Verify classification of the questions according to the area of working |
|  | 3. Verify fetching of these questions for online test |
|  | 4. Verify application for the options in MCQ options |
|  | 5. Verify fetching of the MCQ options |
|  | 6.Validate creating of a database for questions |
|  | 7.Verify creation of proper columns in the question database |
|  | 8.Verify application for the answers of the questions of online test |
|  | 9.Verify fetching of the answers of the MCQ questions |
|  | 10.Verify addition of the collected questions to the database |

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| Process-2 | Decide Job Criteria |
| Purpose | The first round, that is, the online test will be cleared by the candidate only when he/she acquires some marks decided by the system before the commencement of the online test. |
| Target Audience | Developer |
| Status | Completed |
| Role: | **As a**Developer |
| Verification Steps | 1.Verify application for the selection criteria from the company |
|  | 2.Verify obtaining of the job criteria for selection of candidates |
|  | 3.Verify creation of a new column in the question database to store the job criteria |
|  | 4.Verify maintenance different job criteria for every post |
|  | 5.Verify confirmation that cut-off marks are less than max marks of the online test |
|  | 6.Verify the launch the job criteria on the system |
|  | 7.Verify conveying of the area of interest of jobseekers to the project team |
|  | 8.Verify notification of the jobseeker about the post he/she should apply for |
|  | 9.Verify confirmation of the jobseeker has applied for the correct post |
|  | 10.Verify application of the job criteria to the online test |

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| Objective-2 | Select Questions |
| Purpose | The collected questions are to be selected and are to be made into questionnaires to test the knowledge of the jobseekers |
| Target Audience | Developer |
| Status | On-going |
| Role: | **As a** *Developer* |
| Verification Steps | 1.Verify collection of the question database |
|  | 2. Verify fetching the number of questions to be asked |
|  | 3.Verify fetching the number of questions to asked from each difficulty level |
|  | 4. Verify fetching the number of questions to asked from each subject |
|  | 5. Verify confirmation of whether the answers of questions are correct |
|  | 6.Verify fetching of the time allotted for the online test |
|  | 7.Verify confirmation whether the time allotted is manageable |
|  | 8.Verify providing of timer for the online test |
|  | 9.Verify selection of questions for the online test |
|  | 10.Verify making a questionnaire |

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| Process-1 | Filter Question Set |
| Purpose | The collected questions should be grouped according to their difficulty level and also, according to area of work or the job posts. |
| Target Audience | Developer |
| Status | On-going |
| Role: | **As a** *Developer* |
| Verification Steps | 1.Verify acquiring of the difficulty level of the questions of online test |
|  | 2.Verify creation of a new column in the question database |
|  | 3.Verify storage the level of difficulty in the database |
|  | 4.Verify sorting of the questions according to difficulty level |
|  | 5.Verify sorting of the answers according to the previous sorting |
|  | 6.Verify confirmation of whether the order of options in MCQ questions is maintained |
|  | 7.Verify preservation the areas of interest of the jobseekers |
|  | 8.Verify fetching of the number of questions to be asked of each level |
|  | 9.Verify picking up random questions of each difficulty level |
|  | 10.Verify providing question set to make questionnaire |

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| Process-2 | Select Suitable Questions |
| Purpose | The questions to be asked in the online test should be of the same calibre, testing each candidate on the same level, depending on the job which has been applied for |
| Target Audience | Developer |
| Status | On-going |
| Role: | **As a**Developer |
| Verification Steps | 1.Verify acquiring of the number of questions to be asked from each level of difficulty |
|  | 2.Verify obtaining of questions from the question database |
|  | 3.Verify filtration of these questions according to area of interest |
|  | 4.Verify filtration of questions according to level of difficulty |
|  | 5.Verify application for marks for every question |
|  | 6.Verify selection of random questions from the question database to form a questionnaire |
|  | 7.Verify confirmation that the addition of marks of each question exactly adds up to the maximum marks of the test |
|  | 8.Verify checking of the probability of a candidate getting selected for the next round |
|  | 9.Verify confirmation of whether the questions are from the same work area |
|  | 10.Verify providing of question set to make questionnaire |

# VERIFICATION STEPS: GOAL-3

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| --- | --- |
| Objective-1 | Test Results |
| Purpose | To declare the test results of the online test conducted by the company to check the overall knowledge of the candidate. |
| Target Audience | Jobseeker |
| Status | On-going |
| Role: | **Jobseekers** |
| Verification Steps | 1. Verify how the online test is conducted for recruiting process |
|  | 2.Verify creation of different slots of recruiting process |
|  | 3.Verify Formulation of test assets of online recruiting process |
|  | 4.Validate maintenance of network speed |
|  | 5.Verify checking of security level of online recruiting process |
|  | 6.Verify Mail to all candidates about time to time updates of recruiting process |
|  | 7.Verify maintenance level of questions in online recruiting process |
|  | 8.Verify maintenance of time limit of online test |
|  | 9.Verify uploading of results in specific time |
|  | 10.Verify of the results of online test |

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| Process-1 | Declare Test Results |
| Purpose | To declare the results of online test in specified time process, so that it is for convenient company to carry the further recruitment process |
| Target Audience | Jobseekers |
| Status | Ongoing |
| Role: | **Jobseekers** |
| Verification Steps | 1.Verify Announcement of the results in specified time spam |
|  | 2.Verify sorting of the results according to criteria |
|  | 3.Verify maintenance connectivity of the mail system |
|  | 4. Verify results of recheck by company authorities |
|  | 5. Verify sending of mail to the selected candidate |
|  | 6. Verify answer to the questions related about results |
|  | 7. Verify uploading of the results on the company’s official website |
|  | 8. Verify informing of the candidates about next stages of recruiting process |
|  | 9. Verify informing the dates of recruiting process to selected candidates |
|  | 10. Verify allocation the time slots of next stages of recruiting process to selected candidates |

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| Process-2 | Select Eligible Candidates |
| Purpose | To select eligible candidates from online test for going one step ahead to choose an appropriate candidates for desired post |
| Target Audience | Jobseekers |
| Status | On-going |
| Role: | **Jobseekers** |
| Verification Steps | 1.Verify sort test results according to criteria |
|  | 2. Verify the test results criteria for different fields |
|  | 3. Verify adding of general perspective results in main online test |
|  | 4. Verify sorting of the candidates according to different criteria of results |
|  | 5. Verify Informing of the selected candidates about results |
|  | 6. Verify about description of next level of recruitment process |
|  | 7. Verify about the dates of the next level of recruitment process |
|  | 8. Verify information about time to time changes in recruitment process |
|  | 9. Verify deciding of the slots of eligible candidates of next level |
|  | 10. Verify description important polices of the company to the eligible candidate |

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| Objective-2 | Future Updates |
| Purpose | To mail future updates to the selected candidates so that selected candidates will get time to time updates of the recruitment system |
| Target Audience | Selected and unselected candidates |
| Status | On-going |
| Role: | **Selected and Unselected Candidates** |
| Verification Steps | 1.Verify the creation of the mail system for sending the mail to jobseekers |
|  | 2.Verify the connectivity of the system |
|  | 3.Verify vacancy report of the company |
|  | 4.Verify time to time updates of recruitment process to eligible candidates |
|  | 5.Verify the future vacancies to unselected candidates |
|  | 6.Verify the upload vacancy report on official website |
|  | 7.Verify the discussion with authorities about any new vacancy |
|  | 8.Verify the discussion about the details process of next stages of the recruitment process |
|  | 9.Verify the information about the recruiting process to the selected candidates |
|  | 10.Verify the information about changes in the recruiting process to selected candidates |

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| --- | --- |
| Process-1 | Trace later stages |
| Purpose | Tracing the later stages will use to give one step ahead to the recruitment process means next stage of the recruitment process |
| Target Audience | Jobseekers |
| Status | On-going |
| Role: | **Jobseekers** |
| Verification Steps | 1.Verify the next stages of the recruitment process |
|  | 2.Verify the difficulty level of next stages of recruitment process |
|  | 3.Verify the dates of next stages of recruitment process |
|  | 4.Verify the time to time updates of the next stages of the recruitment process |
|  | 5.Validate the mail to the eligible candidates of the recruitment process |
|  | 6.Validate the time to time updates of the recruitment process to the eligible candidates |
|  | 7.Verify the answer any queries of the recruitment process to eligible candidates |
|  | 8.Reverify the documents of the eligible candidates |
|  | 9.Verify the information about the policies of the company to the selected candidates |
|  | 10.Verfiy the information about joining report to the final stage selected candidates |

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| Process-2 | Future vacancy reports |
| Purpose | Time to time future vacancies of the company mail to unselected candidates so that it will be convenient for both company and jobseekers |
| Target Audience | Jobseekers |
| Status | On-going |
| Role: | **Jobseekers** |
| Verification Steps | 1.To decide the vacancies in different fields of the company |
|  | 2.Decide the significance of the particular vacancy in different area |
|  | 3.Decide the time of urgency of particular post |
|  | 4.Discuss with authority to recruiting about particular post |
|  | 5.Creating the vacancy reports in sorted order |
|  | 6.Take suggestion of higher authority while creating report |
|  | 7.Uploading vacancy report on company’s official website |
|  | 8.Give mail of vacancy to the unselected candidates |
|  | 9.Send mail to the jobseekers who inquiry about the different post |
|  | 10.Finalise the report after assuring of the authority |

# VERIFICATION STEPS: GOAL-4

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| --- | --- |
| Objective-1 | Job Statistics Report |
| Purpose | The job confirmations from the selected candidates and the still left vacancies are to be recorded in a formal fashion. This will provide an immediate vision of the job scenario in the company |
| Target Audience | Company |
| Status | On-going |
| Role: | **Company** |
| Verification Steps | 1.Verify the fetching of the jobseeker database |
|  | 2. Verify the generation of a graph with these details |
|  | 3.Verify the number of the selected jobseekers |
|  | 4.Verify the formulate this information in the graph |
|  | 5. Verify the number of vacancies available in the company |
|  | 6.Verify the graph using random values |
|  | 7.Verify the generation of a template for sending the information |
|  | 8. Verify the notify of the unselected jobseekers by the vacant posts |
|  | 9. Verify the finalization of the contents of the graph |
|  | 10. Verify the provided the graph to the company |

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| --- | --- |
| Process-1 | Current Job Statistics |
| Purpose | Examine the number of selected candidates and the number of vacancies available in the company and formulate it in the form of a graph |
| Target Audience | Company |
| Status | On-going |
| Role: | **Company** |
| Verification Steps | 1.Verify the obtained list of the selected candidates |
|  | 2. Verify the obtained list of confirmed selected candidates |
|  | 3.Verify the creation of a new column in the question database |
|  | 4.Verify the plotting of a graph showing statistics of the company |
|  | 5.Validate the graph |
|  | 6. Confirm whether changes made in the database reflect in the graph |
|  | 7. Generate features of the graph that are valuable |
|  | 8.Verify the evaluation different feature selection strategy |
|  | 9.Verify the provided a clear graph to the company |
|  | 10. Verify the finalized of the graph |

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| Process-2 | Available Vacancies |
| Purpose | After the job selection, make a record of the available vacancies in the company. The non-selected candidates who had applied will be informed about these vacancies so that they can apply for the job again. |
| Target Audience | Jobseeker |
| Status | On-going |
| Role: | **Jobseeker** |
| Verification Steps | 1.Verify the obtained list of selected and unselected candidates |
|  | 2. Verify the removation of the unnecessary information about the unselected candidates |
|  | 3.Verify the preservation of the contact information of the unselected candidates |
|  | 4.Verify the obtained graph of job statistics |
|  | 5. Verify the observed the number of vacancies available |
|  | 6.Verify the notified the jobseekers about the vacancies |
|  | 7. Verify the update of the graph |
|  | 8. Verify the creation of a template to send this information to the jobseekers |
|  | 9.Verify the formulation of a complete mail to be sent |
|  | 10.Verify the dispatch this mail to the unselected jobseekers |

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| Objective-2 | Examine Test Result |
| Purpose | Soon after the test results are obtained, the numbers of candidates selected are recorded. This result can then be used to check if the question set prepared is appropriate or not |
| Target Audience | Company |
| Status | On-going |
| Role: | **Company** |
| Verification Steps | 1.Verify the obtained of the jobseeker database |
|  | 2. Verify the obtained of the result of online test |
|  | 3. Verify the gather of the number of applicants selected |
|  | 4. Verify the finding ratio of applicants selected |
|  | 5. Verify the confirmation whether this ratio is acceptable |
|  | 6. Verify the problem area in the question set |
|  | 7.Verify the generation changes in the questionnaire as per the requirement |
|  | 8. Verify the duplication these changes in the question database |
|  | 9. Verify check whether area of work are preserved |
|  | 10.Verify the forwarded changed question database to the company |

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| Process-1 | Notify job seeker |
| Purpose | As the results of the online test are declared, the jobseekers are notified of their performance in the online test. By this information, it is indicated to them whether they have to appear for the next rounds of the job selection or not. |
| Target Audience | Jobseeker |
| Status | On-going |
| Role: | **Jobseekers** |
| Verification Steps | 1.Verify the obtained result of the online test |
|  | 2.Verify the created new column in jobseeker database |
|  | 3.Verify the mentioned whether the candidate has been selected or not |
|  | 4.Verify the fetched the number of candidates that have been selected for the job |
|  | 5.Verify the fetched the number of candidates that are not selected |
|  | 6. Verify the created a format to notify each jobseeker |
|  | 7. Verify the notified candidates who have been selected about the future processes of selection |
|  | 8. Verify the notified unselected candidates about the future vacancies |
|  | 9. Verify the confirmation if all candidates have been informed |
|  | 10. Verify the information of the company about the notification |

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| Process-2 | Examine result statistics |
| Purpose | Once the result of the online test is obtained, this information is formulated into a graph. This graph are used for future references to get an easy insight into the job statistics |
| Target Audience | Company |
| Status | On-going |
| Role: | **Company** |
| Verification Steps | 1.Verify obtained the result of the online test |
|  | 2. Verify the confirmed whether the result is of the respective candidate |
|  | 3. Verify the creation of a basic graph |
|  | 4. Verify the populate of the graph of statistics |
|  | 5. Verify the analyse the graph made of job statistics in the company |
|  | 6. Verify the maintain record of jobs undertaken by new jobseekers |
|  | 7. Verify the maintain record of the vacancies available in the company |
|  | 8. Verify the creation of a basic database to maintain details of jobs |
|  | 9. verify the populate of the graph by adding details of jobs and vacancies |
|  | 10. Verify the provided this database to the project team |

# VERIFICATION STEPS: GOAL-5

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| Objective-1 | Format Questionnaire |
| Purpose | We need to launch the questionnaire for the online test so that the test can be conducted for selecting the jobseeker for the available post. |
| Target Audience | Jobseeker |
| Status | On-going |
| Role: | **Jobseekers** |
| Verification Steps | 1.Verify the acquire test questionnaire |
|  | 2. Verify the sort questions of the test. |
|  | 3. Verify the decide total number of questions |
|  | 4.Verify the decide marks for questions |
|  | 5.Verfiy the decide test pattern |
|  | 6.Verify the distribute test questionnaire |
|  | 7.Verify the inform company about test pattern |
|  | 8.Verify the about marking scheme |
|  | 9.Verify the design the test launch |
|  | 10.Verify the launch test |

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| Process-1 | Acquire test questionnaire |
| Purpose | The collected questionnaire should be sorted according to the difficulty level and also decide the marking scheme and test pattern |
| Target Audience | Jobseeker |
| Status | On-going |
| Role: | **Jobseekers** |
| Verification Steps | 1.Verify the obtain the collected questions |
|  | 2.Verify the obtain the question of different field |
|  | 2.Verify the Sort questions |
|  | 3.Verify the decide total number of questions |
|  | 4.Verify the decide marks for questions |
|  | 6. Verify the selection of question |
|  | 7.Verify the information the company about test pattern |
|  | 8.Verify the asking them about marking scheme |
|  | 9.Verify the test launch |
|  | 10. Verify the finalise the question for test |

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| Process-2 | Perform question optimisation |
| Purpose | Selected question must sorted according to their respective field , and also the difficulty level of questions should be decided so that the associated marks of each question is predefined |
| Target Audience | Jobseeker |
| Status | On-going |
| Role: | **Jobseeker** |
| Verification Steps | 1.Verify the optimise the selected question |
|  | 2.Verify the sort questions according to topic |
|  | 3.Verify the search topics for test |
|  | 4.Verify the decide aim of test |
|  | 5.Verify the questions according to difficulty level |
|  | 6.Verify the decide marks of the online test |
|  | 7.Verify test pattern |
|  | 8.Verify test duration |
|  | 9.Verify test question |
|  | 10.Verify the perform question optimisation |

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| Objective-2 | Process Test Assets |
| Purpose | Distribute test which is finalised initially and launch the test so that the candidates can be selected for the post. |
| Target Audience | Jobseeker |
| Status | On-going |
| Role: | **Jobseekers** |
| Verification Steps | 1.Verify the distribution of the questionnaire |
|  | 2.Verify the check company requirement |
|  | 3.Verify the release of the test format |
|  | 4.Verify the finalised questionnaire |
|  | 5.Verify required changes |
|  | 6.Verify the launch trial version of online test |
|  | 7.Verify the communication of the company |
|  | 8.Verify the test timing |
|  | 9.Verify the conduction of a trial test |
|  | 10.Verify the launching of online recruitment test |

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| Process-1 | Distribute test questionnaire |
| Purpose | To provide questionnaire to company to launch test. The questionnaire collected must be distributed so that the test can be conducted. |
| Target Audience | Company |
| Status | On-going |
| Role: | **Company** |
| Verification Steps | 1.Verify the distribution of questionnaire |
|  | 2.Verify the checking of test contents |
|  | 3.Verify the checking of test working |
|  | 4.Verify the confirmation of test content |
|  | 5.Verify confirmation of test pattern |
|  | 6.verify the confirmation of questions sorting |
|  | 7.Verify the check marking scheme |
|  | 8.Verify the check test duration |
|  | 9.Verify the check test termination |
|  | 10.Verify the check test feedback |

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| Process-2 | Launch test |
| Purpose | The test should be launched after completion of all the testing process ,so that the jobseeker can be selected for the available post |
| Target Audience | Jobseeker |
| Status | On-going |
| Role: | **Jobseekers** |
| Verification Steps | 1.Verify the preparation questionnaire for launch |
|  | 2.Verify the decide of test pattern |
|  | 3.Verify the decide of test time |
|  | 4.Verify the decide of launch deadline |
|  | 5.Verify the check test security |
|  | 6.Verify the check test sign in |
|  | 7.Verify the check test submission |
|  | 8.Verify the check test working |
|  | 9.Verify the check test feedback |
|  | 10.Verify the feedback submission |

# VERIFICATION STEPS: GOAL-6

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| Objective-1 | Apply Job Terms |
| Purpose | To inform the job seeker about the terms and condition of the company before joining it. |
| Target Audience | Company |
| Status | On-going |
| Role: | **Company** |
| Verification Steps | 1.Verify the communicate company |
|  | 2.Verify the terms and condition |
|  | 3.Verify the package information |
|  | 4.Valiadte the package information |
|  | 5.Verify the of allowance details |
|  | 6.Verify the build terms matrix |
|  | 7.Verify the matrix content |
|  | 8.Verify the communicate company |
|  | 9.Verify the proper format |
|  | 10.Verify the finalise matrix |

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| Process-1 | Acquire terms and conditions information |
| Purpose | To acquire the terms and conditions of the company for desired post so that selected candidates can understand the environment of the company |
| Target Audience | Selected Candidates |
| Status | On-going |
| Role: | **Selected Candidates** |
| Verification Steps | 1.To discuss policies follow of by the company with higher authorities |
|  | 2.Verify the discussion of important terms and conditions of the company |
|  | 3.Verify the discussion the in general overview of the company with authorities |
|  | 4.Verify the form of the joining report of the recruiting process |
|  | 5.Verify the discussion the joining report with higher authority |
|  | 6.Verify a suggestion in the report from the higher authorities |
|  | 7.Verify the finalise report with suggestion given by the authorities |
|  | 8.Verify the finalise report with the signature of the higher authorities |
|  | 9.Verify the joining report to the selected candidates |
|  | 10.Verify the about changes in the joining report of the recruiting process |

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| Process-2 | Build term matrix |
| Purpose | To build the terms matrix of joining report of recruiting process and terms and conditions of the company. |
| Target Audience | Selected Jobseekers |
| Status | On-going |
| Role: | **Selected Jobseekers** |
| Verification Steps | 1.Verify the discussion the policies of the company with authorities |
|  | 2.Verify the collection the terms and conditions of the company from authorities |
|  | 3.Verify the discussion the requirements of the desired post with authorities |
|  | 4.Verify the form of the term matrix of the recruiting process of the company |
|  | 5.Verify the discussion the term matrix with the higher authorities of the company |
|  | 6.Verify the suggestion in the term matrix from the higher authorities |
|  | 7.Verify the finalise term matrix of recruiting process |
|  | 8.Verify the finalise term matrix to higher authorities |
|  | 9.Verfiy the mail this matrix to higher authorities of the company |
|  | 10.Verify the time to time updates of the term matrix |

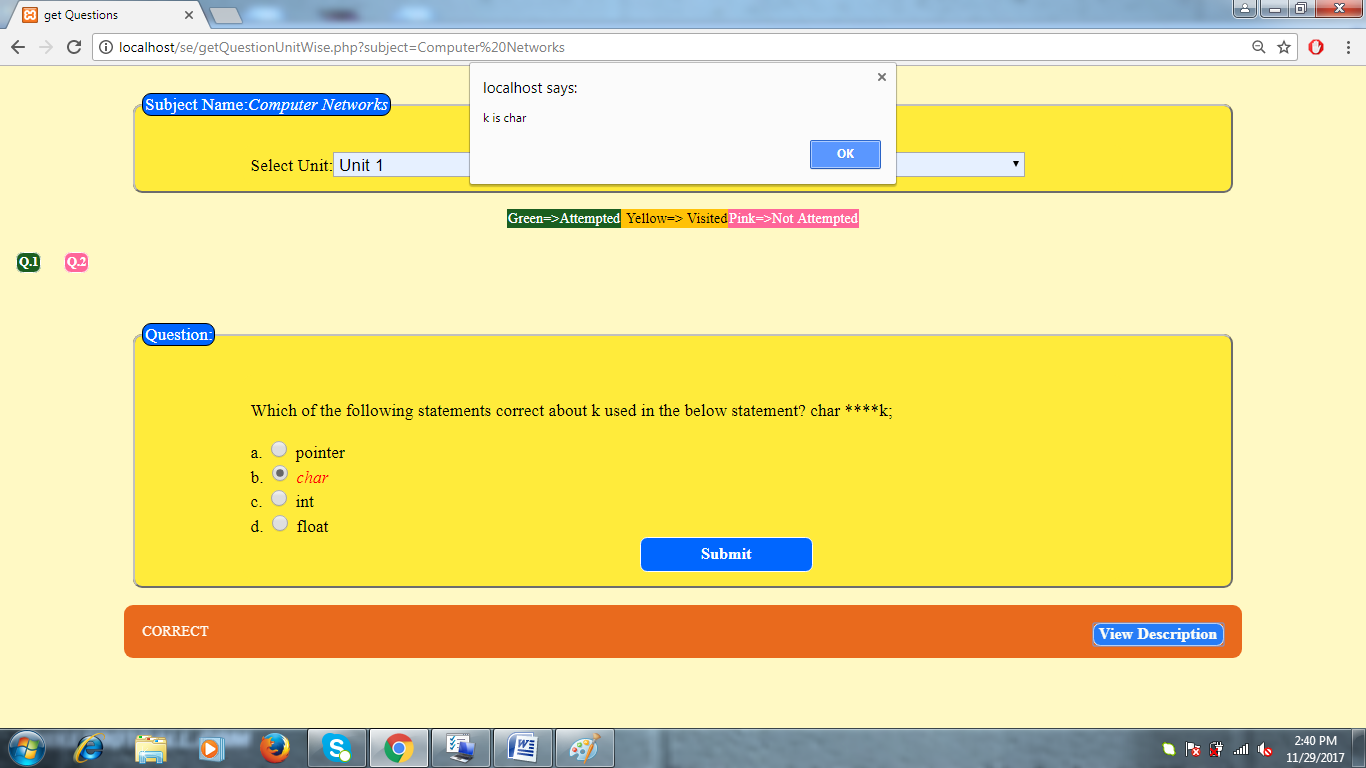
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| Objective-2 | Create joining profile |
| Purpose | To create joining profile of the selected candidates select from finalise stage of the recruiting process so that company can store the data of their newly recruited employee. |
| Target Audience | Newly recruited employee |
| Status | On-going |
| Role: | **Newly recruited employee** |
| Verification Steps | 1.Verify the policies followed up by the company |
|  | 2.Verify the creation of a joining report of the newly recruited candidates |
|  | 3.Reverify the documents of the newly recruited candidate |
|  | 4.Verify the creation of the employee’s profile of the newly created candidates |
|  | 5.Validate the filled up information of the newly recruited candidates |
|  | 6.Verify the creation backup of the employees information database |
|  | 7.Verify the creation the terms and conditions report of the company |
|  | 8.Verify the creation the process-client report of the company |
|  | 9.Verify the finalise the UI of the newly recruited employee |
|  | 10.Verify the updates time to time changes as per requirements from company in the UI |

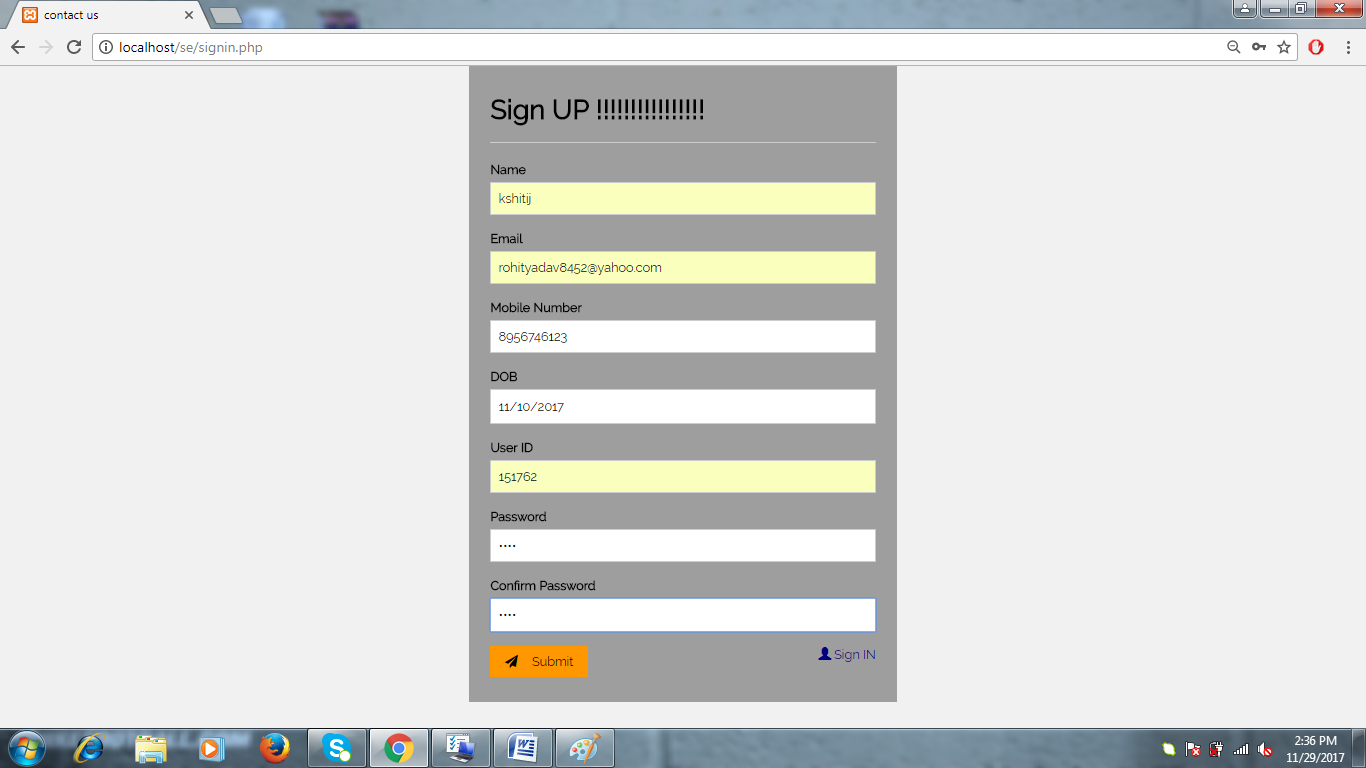
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| Process-1 | Distribute Terms-Condition Report |
| Purpose | When the candidates will be selected after all rounds of selection, the company will set forward its terms and conditions before joining the company. By achieving this, there will be no chaos after the candidate has joined the company. |
| Target Audience | Selected jobseekers |
| Status | On-going |
| Role: | **Selected Jobseekers** |
| Verification Steps | 1.Verfiy the conduct of the next rounds of selection |
|  | 2.Verify the obtain the list of finally selected candidates |
|  | 3.Verify the build format for the terms and condition document |
|  | 4. Verify the discussion with the higher authorities about the content of terms and condition document |
|  | 5. Verify the finalize the content of the terms and condition document |
|  | 6. Verify an authentic consent in the form a signature |
|  | 7. Verify the distribution the final document to the selected candidates |
|  | 8. Verify the supplication them to sign the document for agreement |
|  | 9. Validate all the signed process joining reports |
|  | 10. Verify the forward them to the authorities of the company |

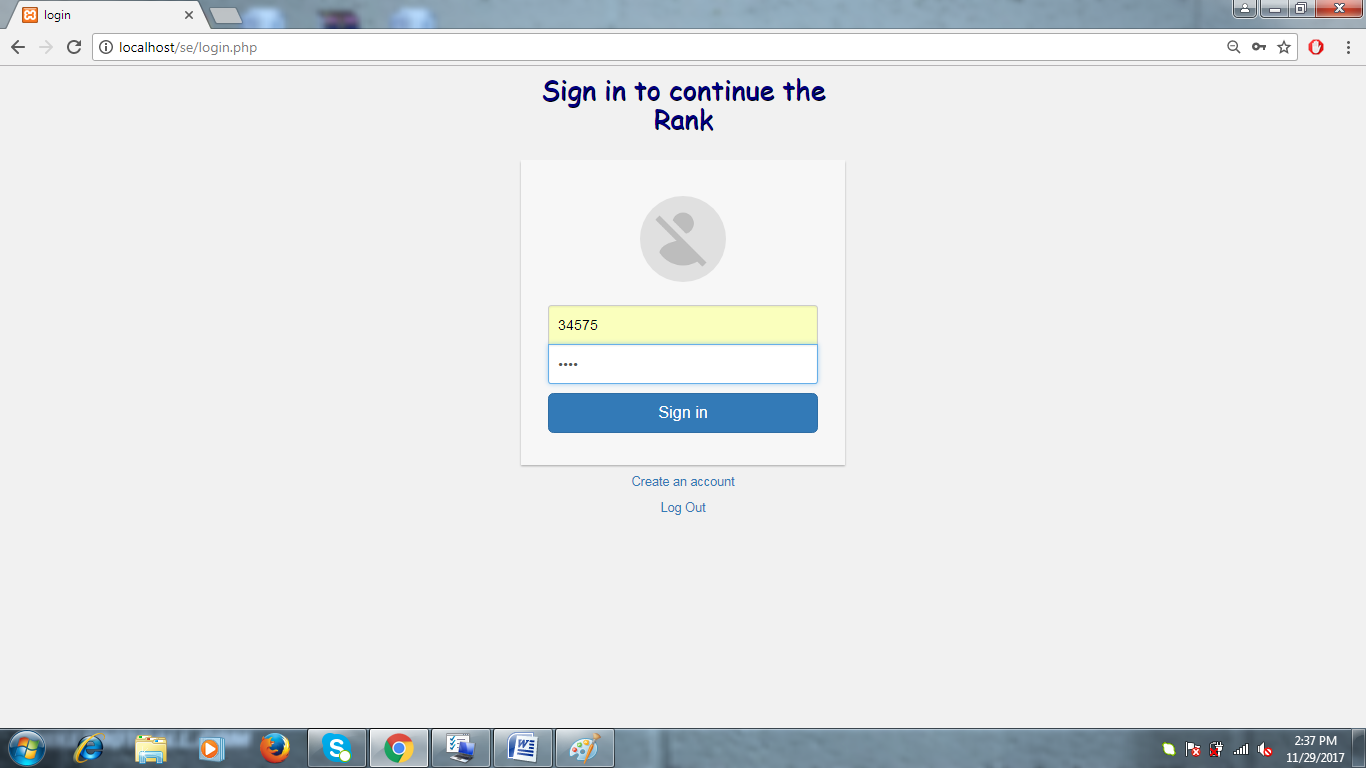
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| Process-2 | Process Client Report |
| Purpose | This report briefs the client about the facilities provided by the system created. By generating this report, there will be no chaos regarding the discussed terms during the agreement |
| Target Audience | Company |
| Status | On-going |
| Role: | **Company** |
| Verification Steps | 1.Verify the terms discussed during the agreement |
|  | 2. Verify the observe facilities that the system provides |
|  | 3. Verify the generation a format for writing a client report |
|  | 4. Verify the tick facilities that have been provided |
|  | 5. Verify the budget allotted in account |
|  | 6. Verify the complete the incomplete little tasks |
|  | 7. Verify the client report |
|  | 8. Verify the appropriate comments in the client report |
|  | 9. Verify the forwarded client report to the high authorities |
|  | 10. Verify the forwarded a copy to the project team |

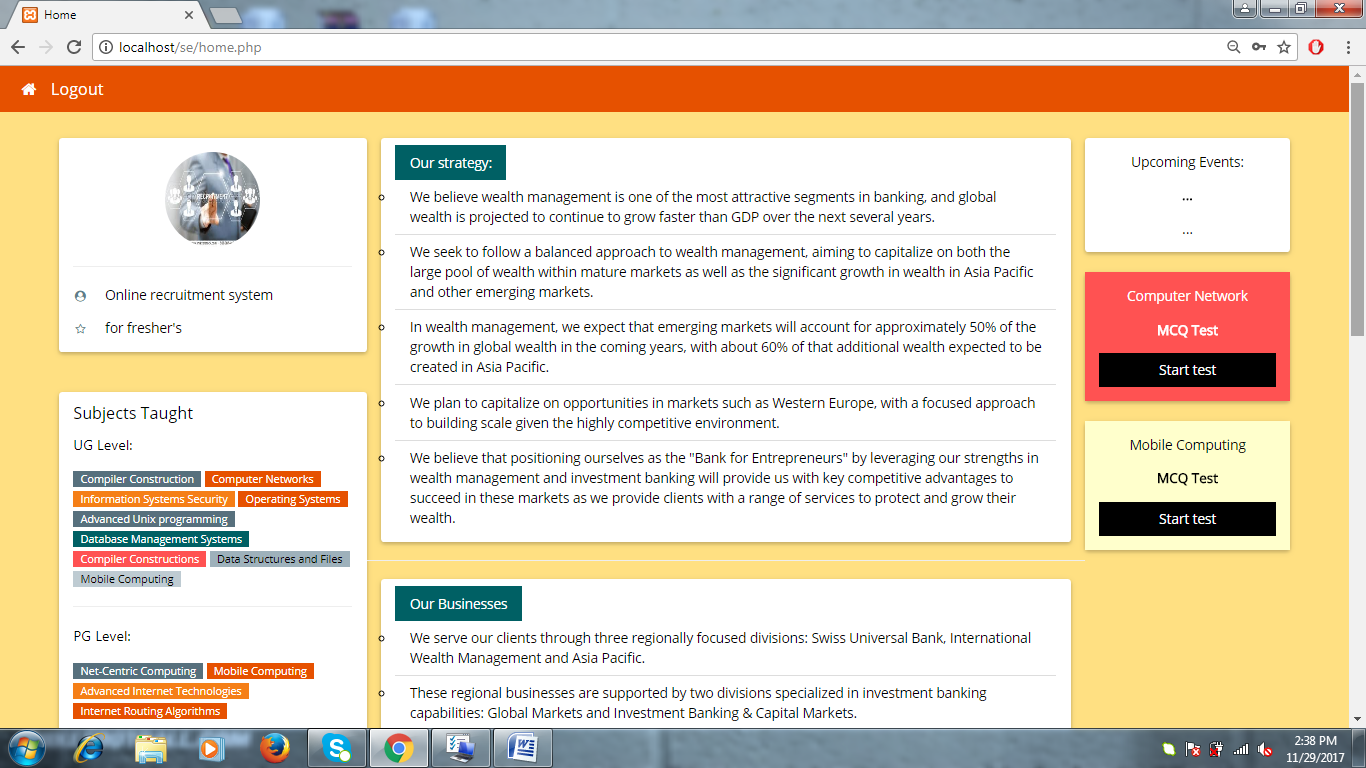
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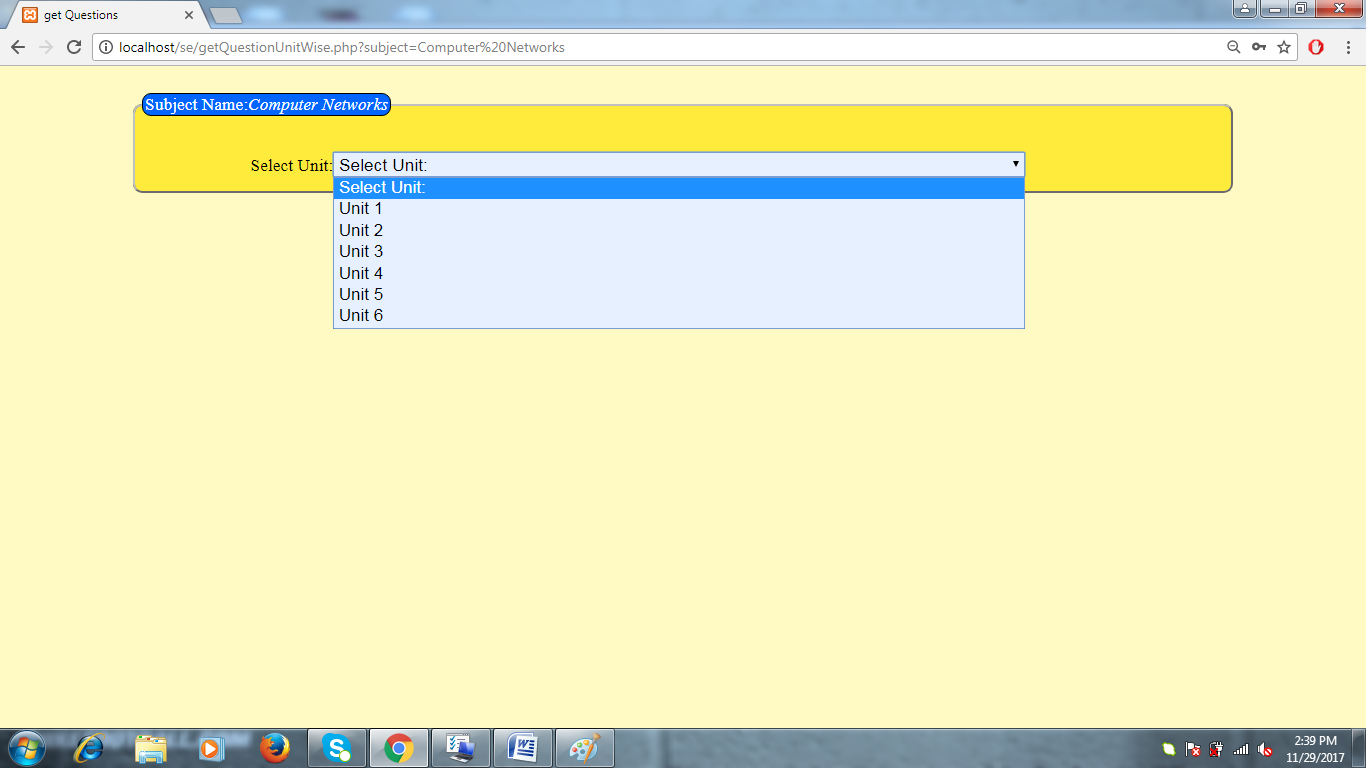
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# VERIFICATION MATRIX

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