**THEORY-PRACTICE CORRESPONDANCE DOCUMENT**

Project: Distributed Business Management Software

Organisation:

Software Engineering

Team:

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| **Topics** | | **Key Concepts** | | **Relevance** | | **Real World Context** | | **Inter-Disciplinary Connections** | | **Critical Thinking Skills** | | **Technology, Tools, and Techniques** | | **Project Management** | **Project Sketch (Timeline)** | |
| **Software life cycle** | | **Life Cycle of software** | | It’s a frame work which describe stages of each development software project .It basically designs a path to follow for the project. | | Model gives a perfect scenario for the project wherein we implement the project in a preplanned manner which gives a better understanding to software implementation. | | This important part of our project has established a connection between the system and user of the software | | It analyses the path requirement ,development etc. of the software. | | GitHub | | It was started to be follow on 17th august 2016 to 20th  November 2016 | Following all the life cycle it was been ended by 20th November 2016 | |
| **Software DevelopmentMethodologies** | | **Various stages of the life cycle** | | **WATERFALL MODEL**-  Since there are no changes in our requirement so water fall model will work  **PROTOTYPE MODEL**- There is no customer feedback window as such since we considered all the essential requirement needed by our customer. So no prototype model used.  **SPIRAL** **MODEL:**  After every single phase  We didn’t have interaction with our customer .hence we have not chosen this model.  **Incremental**  **Model:**  As our project was not implemented in incremental parts .There-  Fore we didn’t choose this model.  **RAD Model:**  We didn’t choose any  part as data modeling,process modeling etc…. Hence this model is not used. | | Basically in the water fall follows a sequential way of the design and completes within the software. Since in the software design we have not changed anything in our requirements, so we have kept the data structure of the design in the form of this model. | | It fixes all the bugs and the adds more functionality to the system.  Defines also the needs of the software | | Disadvantage-  1) If the requirements change then it will not work.  2) Constant testing of the design is needed.  3) Difficult to estimate the cost of the model. | | GitHub,For Documentation of the | |  |  | |
| **Software Requirement Specification** |  | |  | | Its tells us about software specification and idea of the software and requirements of the software | |  | |  | |  | |  | | |  | |
| **Problem anaylisis of the software** | |  | | Basically in real life sometimes misplace of the product happens which makes loss of the Business. So  We have design this software which makes the system of the software more efficient and reliable . | |  | |  | |  | |  | |  |  | |
| **System Design** | | **Abstraction** | | It takes only the important information and ignores rest of the system | | Since abstraction picks up the important info therefore the developers must keep all details in secure so that no other can’t see it. | | It takes important parts of the information for designing the complexity of the system. | |  | | Github,Mysql database,Creativity,Visual studio | |  |  | |
|  | | **Modularity** | | It helps to develop an efficient design way of the system of the software in mannered form | | It helps to design the software  In mannered form | | It helps in debugging and testing of the code and module of the system. | | Greater the module more the system will be intergrated | | Visual studio,Github | |  |  | |
|  | | **Cohesion** | | The degree of the component which are directed towards a single task is called cohesion | | It decides which module is good for our software development.we use the communication cohesion. | | Each component decides its own modularity of the function of the software. | | Higher the cohesion better the design of the program | |  | |  |  | |
|  | | **Coupling** | | Interaction between the module of the system of the software is called coupling | | Each module must have to tell how do they interact within the system of the software.Com | | Each component knows the component within the system of the software. | | Lower coupling better the program of the software. | |  | | We are using only our own resource and for the development of the software. |  | |
| **Software Project Management** | | **Cost project estimation** | | It gives us a financial estimation of the software project. | | They all pick and scan the feasibility of the software design | | They understand all the system  Of the financial feasibility | | HR members and the project team work is to look at the financial feasibility. | | Github,visual studio,c# programming,Mysql Database,Creativily | | We are using only our own resource and for the development of the software. | Zero cost of the project. | |
|  | | **Project Scheduling** | | To execute the software in a better form of it we should have a feasible schedule for the development of the software. | | Scheduling is done on the basis of time & cost or Sequence of activites or Estimating on work material of the software. | | It helps to understand all the schedule of the task of the software and system | | Ensures all the going well as on the basis of planning and keeps on the track of the system of the software design of the system. | |  | |  |  | |