

## **Experiment No:1**

### **Aim:**

- Prepare detailed statement of problem for the selected / allotted mini project and identify suitable process model for the same with justification.

### **Case Study:**

- Online Exam Portal for student.

### **Problem Statement:**

- Presently if the teachers conduct any objective examination, they have to check the answer sheets manually which is time consuming and the generation of results manually might result in errors or delay in displaying the result. Online examination helps students of School / College / Institutions is to offer a quick and easy way to appear for the exam. It also provides the results immediately after the exam. online examination system saves the exams information in a database, teachers can add/delete questions, set the correct answers, specify the exam period, register students, delete students, show questions for students randomly, calculate and show the final results for students.

So proposed system for an Online Exam Portal is to get or generate their user id and password with his/her identity card. This id is already saved in the examination server or it will be registered by Admin side. When authenticated user login to the server he/she get his/her profile already register so that He does not need to waste time in filling profile information. All answers given by user are saved into the server with his/her profile information. It also allows user to correct the answer if the user needed to change any answer in the examination time duration, however after the time duration any change will not allow. As on Admin side the admin work is to create new exam questions with proper integrity constraints. As admin can also view the Toppers of that exam and can create the report card based on the Exam to their Email id registered.

**Software Process Model:**

- For this project, we have selected Spiral Process Model because of the following reasons:
  1. It is a combination of waterfall model and iterative model.
  2. Risk handling is one of important advantages of the Spiral model, it is best development model to follow due to the risk analysis and risk handling at every phase.
  3. Risks can be identified and rectified before they get problematic.
  4. Change requests in the Requirements at later phase can be incorporated accurately by using this model.
  5. Each phase in spiral model begins with a design goal and ends with the client reviewing the progress. The same activities are then repeated for all the spirals till the entire software is build.
  6. Development is fast and features are added in a systematic way in Spiral development.
  7. Flexibility in requirements as in this model, we can easily change requirements at later phases and can be incorporated accurately.
  8. Customer can see the development of the product at the early phase of the software development thus they get habituated with the system by using it before completion of the total product.
  9. The final model is transparent.
  10. Allows extensive use of prototypes.
  11. Project estimates in terms of schedule, cost etc. become more and more realistic as the project moves forward and loops in spiral get completed.

**Group Member:**

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