

Instructions:

1. Form groups of 4 members.
2. Choose an App to Develop:
  - a. Each group must select an application they wish to develop and provide an overview of the app, including its purpose, key features, and target users.
3. Select a Software Development Model:
  - a. The group must choose one software development model that best suits their chosen application. Based on the selected model, complete the following tasks:
    - i. Waterfall Model: Describe how each phase (Requirements Analysis, System Design, Implementation, Integration and Testing, Deployment, Maintenance) will be applied in a linear sequence to the project.
    - ii. Agile Methodologies (Scrum or Kanban): Explain how the project will be managed through iterations (Sprints) or workflows, detailing roles, ceremonies, and the use of tools like the Product Backlog or Kanban Board.
    - iii. Spiral Model: Demonstrate how the project will progress through multiple spirals, with a focus on risk management and iterative development.
    - iv. Iterative and Incremental Development: Illustrate how the project will be developed in cycles, emphasizing continuous refinement, feedback, and the addition of new features over time.
4. Discussion of Advantages and Disadvantages:
  - a. After applying the selected model to the project, discuss as a group the advantages and disadvantages of using that model for your chosen application. Consider factors such as project complexity, risk management, customer involvement, flexibility, and time constraints.
5. Submission:
  - a. All answers must be written on a full sheet of yellow paper and submitted during the Prelim Examination.