Software Engineering

Project Proposal Writing

Contents

- ***Team Formation***
- ***SWOT Analysis of Team***
- ***Idea Generation***
- ***Proposal Writing***
  - ***Introduction/ Overview (200-300 words)***
  - ***Problem Statement (200-300 words)***
  - ***Motivation (200-300 words)***
  - ***Expected Features/ Requirements***
  - ***Development Approach***
    - ***Model***
    - ***Tools & Technology***
  - ***Budget Estimation***
  - ***Timeline***
  - ***Conclusion***

Team Formation

- Team Name
- Team Members (4-6)
- Assign Role

SWOT Analysis of Team

- Strengths

- Weaknesses

- Opportunities

- Threats

Idea Generation

- Identify domain *(Education, Healthcare, Agriculture, Social Problem, AI Application)*
- Observe real world Problems
- Brainstrom possible Ideas/ Solutions
- Evaluate and select best idea
  - Feasibility
  - Impact (Social or economical)
  - Innovation
  - Scope
  - Learning Value

Proposal Writing Template

- ***Introduction/ Overview (200-300 words)***
  - ***Introduce the domain or area of application***
  - ***State what the waterfall will do and who the intended users are.***
  - ***Highlight its importance and expected impact.***
- ***Problem Statement (200-300 words)***
  - ***Limitations of current systems or manual processes***
  - ***Why is the problem significant?***
- ***Motivation (200-300 words)***
  - ***Why did you choose this idea? What inspired you?***
  - ***How will it benefit users, organizations, or society?***
  - ***What potential improvements or innovations does it bring?***

Proposal Writing Template

- ***Expected Features/ Requirements***
  - ***List the core functions of your application.***
- ***Development Approach***
  - ***Model: Waterfall/ incremental/ Agile***
  - ***Tools & Technology: Web/ Mobile App/ Frontend, Backend, DB***
- ***Budget Estimation***
  - ***Development Cost***
  - ***Tools & Subscription***
  - ***Deployment & Maintenance***
- ***Timeline***
  - ***SDLC***
- ***Conclusion***

Submission Deadline

- Project Idea Submission
    - Team details, Title, brief idea [google sheet]
    - Deadline: **11 Oct**

- Project Proposal Submission
    - **15 October** (Github & hardcopy)

- Proposal Presentation: **21 Oct**

- Github:
    - Create a repository and add all team member as collaborators
    - Submission: **Proposal, design, code**

Thank you

Course Contents (CSE-3103)

- Basic of SE
  - Chapter: 1,2, 3(Agile)
- Software Requirements Specification (SRS) & Design
  - Chapter 5: Understanding Requirements
  - Chapter 6 & 7: Requirements Modeling
  - Chapter 9, 10, 11: Design
- Development
  - Design Pattern (Lab)
- Software Quality Assurance & Testing
  - Chapter 16, 17, 18
- Project Management (Lab)