



IT - 314

SOFTWARE ENGINEERING

Group No - 11

Lab - 3

Group Members:

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Task 3:

- Develop sprints from the product backlog
 - o Specify your sprint details with an estimated timeline for development (use FP or OP for the estimation)
 - o Estimate how many sprints you can develop in your course project

Sprint Planning:

Total Sprints: 5 sprints

Estimation Method: Function Points (FP)

Sprint 1: Platform Registration (2 Weeks)

- 1. Student Registration on Platform**
 - o **User Story 1:** Register on the platform using a student ID
 - o EI = 1, EO = 1, EQ = 0, ILF = 1, EIF = 1
 - o **Estimation:** 21 FP
- 2. College Registration on Platform**
 - o **User Story 2:** Register college on the platform
 - o EI = 1, EO = 1, EQ = 0, ILF = 1, EIF = 1
 - o **Estimation:** 21 FP
- 3. Login Functionality for Students and Colleges**
 - o **Part of User Story 1 and 2:** Implement login using email and password
 - o EI = 1, EO = 1, EQ = 1, ILF = 1, EIF = 1
 - o **Estimation:** 24 FP

Total FP for Sprint 1: 66 FP

Sprint 2: Event Listing & Updating (2 Weeks)

- 1. Basic Event Listing by College Representatives**
 - o **User Story 3:** List events on the platform
 - o EI = 1, EO = 1, EQ = 0, ILF = 1, EIF = 0
 - o **Estimation:** 14 FP
- 2. Updating Event Details by College Representatives**
 - o **User Story 14:** Update event details on the platform
 - o EI = 1, EO = 2, EQ = 0, ILF = 1, EIF = 1

- **Estimation:** 26 FP
- 3. **Creating Blog for Events by College Representatives**
 - **User Story 19:** Create Blog
 - EI = 1, EO = 1, EQ = 0, ILF = 1, EIF = 0
 - **Estimation:** 16 FP

Total FP for Sprint 2: 56 FP

Sprint 3: Advanced Event Management & Search (3 Weeks)

1. **Event Search Functionality**
 - **User Story 4:** Search for events by keywords, categories, dates, and locations.
 - EI = 1, EO = 1, EQ = 1, ILF = 1, EIF = 0
 - **Estimation:** 21 FP
2. **Student Event Registration & Payment**
 - **User Story 5:** Register for an event and make payments if necessary
 - EI = 2, EO = 2, EQ = 0, ILF = 2, EIF = 2
 - **Estimation:** 42 FP
3. **Event Filtering Options**
 - **User Story 6:** Filter events by categories, dates, and location
 - EI = 1, EO = 1, EQ = 1, ILF = 1, EIF = 0
 - **Estimation:** 20 FP

Total FP for Sprint 3: 83 FP

Sprint 4: Notifications, Feedback, and Profile Management (2 Weeks)

1. **Event Notifications and Reminders**
 - **User Story 7:** Receive notifications about upcoming events and deadlines
 - EI = 0, EO = 1, EQ = 0, ILF = 1, EIF = 0
 - **Estimation:** 15 FP
2. **Feedback Submission Post Event**
 - **User Story 8:** Provide feedback after an event
 - EI = 1, EO = 1, EQ = 0, ILF = 1, EIF = 0
 - **Estimation:** 15 FP
3. **Profile Management & Participation History**
 - **User Story 9:** Manage profile and view participation history

- EI = 1, EO = 1, EQ = 0, ILF = 2, EIF = 0
- **Estimation:** 21 FP
- 4. **Event Analytics for College Representatives**
 - **User Story 10:** View analytics on event participation and feedback
 - EI = 0, EO = 1, EQ = 0, ILF = 1, EIF = 0
 - **Estimation:** 12 FP

Total FP for Sprint 4: 63 FP

Sprint 5: Security, Recommendations, and Admin Controls (3 Weeks)

1. **Secure Payment Integration**
 - **User Story 12:** Integrate with a secure payment gateway
 - EI = 1, EO = 2, EQ = 0, ILF = 0, EIF = 1
 - **Estimation:** 23 FP
2. **Personalized Event Recommendations**
 - **User Story 13:** Receive personalized event recommendations
 - EI = 1, EO = 1, EQ = 0, ILF = 2, EIF = 0
 - **Estimation:** 25 FP
3. **Admin Moderation and Management**
 - **User Story 11:** Admin to manage and moderate platform content
 - EI = 2, EO = 1, EQ = 0, ILF = 2, EIF = 0
 - **Estimation:** 27 FP
4. **Implement Two-Factor Authentication**
 - **User Story 23:** Two-factor authentication for enhanced security
 - EI = 2, EO = 1, EQ = 0, ILF = 1, EIF = 1
 - **Estimation:** 27 FP

Total FP for Sprint 5: 102 FP

Summary of Sprints and Timeline

1. **Sprint 1 (Weeks 1-2):** Focus on registration and basic event listing (66 FP).
2. **Sprint 2 (Weeks 3-4):** Event listing & updates(56 FP).
3. **Sprint 3 (Weeks 5-7):** Implement advanced event management features like search, registration, and payments (83 FP).
4. **Sprint 4 (Weeks 8-9):** Add notifications, feedback, and profile management features (63 FP).

5. **Sprint 5 (Weeks 10-12):** Secure payment, admin moderation, personalized recommendations, and security enhancements (102 FP)