



# IT - 314

# SOFTWARE ENGINEERING

Group No - 11

Lab - 3

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## **Task 2 :**

### **Develop the Product Backlog**

- The product backlog must be written in the form of user stories
  - Consider all the stakeholders
  - Actors
  - Administrator
  - External Systems
  - Others

## **Product Backlog with User Stories and Acceptance Criteria**

**1. As a visitor, I want to explore available events without registering so that I can browse what the platform offers before committing to registration.**

### **Acceptance Criteria:**

- The visitor can view event titles, categories, dates, and locations but cannot see full details.
  - If the visitor tries to access full event details or register for an event, the system prompts them to register or log in.
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**2. As a student, I want to register on the platform using my student ID so that I can access events relevant to my preferences.**

### **Acceptance Criteria:**

- The registration form requires the student's name, email, student ID, and password.
- The system verifies the student email ID.
- Upon successful registration, the student receives a confirmation email.
- Students can log in using their registered email and password.

**3. As an Event enthusiast, I want to register on the platform so that I can access events relevant to my preferences.**

**Acceptance Criteria:**

- The registration form requires the name, email and password.
  - Upon successful registration, the user receives a confirmation email.
  - Users can log in using their registered email and password.
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**4. As a college representative, I want to register my college on the platform so that I can list events and manage participants.**

**Acceptance Criteria:**

- The registration form requires the college's name, accreditation details, contact information, and a password.
  - The system verifies the accreditation status of the college.
  - Upon successful registration, the college receives a confirmation email.
  - Colleges can log in using their registered email and password.
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**5. As a college representative, I want to list events on the platform so that students from various colleges can participate.**

**Acceptance Criteria:**

- Colleges have access to a form to input event details (title, event category, description, date and time, venue, guidelines, and eligibility criteria).
  - The college should be registered on the platform.
  - Event listings are visible to all registered users.
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**6. As a student, I want to search for events by keywords, categories, dates, and locations so that I can easily find and participate in events that match my interests and schedule.**

**Acceptance Criteria:**

- The search functionality must allow students to search for events by keywords, categories, dates, and locations.

- The search must return results that are accurate and relevant to the keywords or filters used by the student.
  - If no events match the search criteria, a "No events found" message must be displayed, with suggestions for modifying the search.
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**7. As a student, I want to register for an event and make payments if necessary so that I can secure my participation.**

**Acceptance Criteria:**

- Students can register for events through the event detail page.
  - The system prompts for payment if the event requires a fee.
  - Payments are processed securely.
  - The system updates the student's profile with their participation history.
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**8. As a student, I want to filter events by categories, dates, and location so that I can quickly find events that match my interests.**

**Acceptance Criteria:**

- The event browsing page allows filtering by categories (e.g., Sports, Tech, Cultural), date range, and location.
  - The system displays only events that match the selected filters.
  - Users can clear filters to view all available events.
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**9. As a participant, I want to receive notifications about upcoming events and reminders for deadlines so that I don't miss any important updates.**

**Acceptance Criteria:**

- Notifications are sent via email and displayed on the user's dashboard.
  - Reminders are sent 48 and 24 hours before registration deadlines.
  - Users have the option to manage their notification preferences.
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**10. As a participant, I want to provide feedback after an event so that the organizers can improve future events.**

**Acceptance Criteria:**

- After the event, students receive a prompt to provide feedback through a form.
  - Feedback includes ratings (e.g., 1-5 stars) and optional comments.
  - Colleges can view and respond to feedback through their dashboard.
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**11. As a student, I want to manage my profile and view my participation history so that I can track my event involvement.**

**Acceptance Criteria:**

- Users can update their personal information (e.g., email, password, profile picture).
  - The profile displays a history of all events the user has participated in, including event feedback.
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**12. As a college representative, I want to view analytics on event participation and feedback so that I can assess the success of our events.**

**Acceptance Criteria:**

- The college dashboard displays key metrics such as the number of participants, average feedback rating, and payment summaries.
  - Analytics are displayed in graphical formats (e.g., charts, graphs) for easy understanding.
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**13. As an admin, I want to manage and moderate the platform content so that the integrity and quality of the platform are maintained.**

**Acceptance Criteria:**

- Admins have access to a dashboard where they can manage user accounts, event listings, and feedback.
  - Admins can flag and remove inappropriate content (e.g., fraudulent events, offensive comments).
  - The system logs all admin actions for accountability.
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**14. As a system administrator, I want to integrate with a secure payment gateway so that participants can safely pay for events.**

**Acceptance Criteria:**

- The platform integrates with secure payment gateways.
  - Payments are processed securely, with encrypted data transmission.
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**15. As a student, I want to receive personalized event recommendations based on my interests so that I can discover relevant events.**

**Acceptance Criteria:**

- The system analyzes user participation history and interests to suggest relevant events.
  - Recommended events are displayed prominently on the user dashboard.
  - Users can mark events as “Not Interested” to refine future recommendations.
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**16. As a college representative, I want to update event details (venue, timing, etc.) so that the participants are up to date with the schedule.**

**Acceptance Criteria:**

- The event should be already listed by the college.
  - The participants should receive a notification about the update.
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**17. As a student, I want to be able to deregister from an event.**

**Acceptance Criteria:**

- The event coordinator should accept the deregistration request.
  - The participants should be already registered in the event.
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**18. As a student, I want to receive a confirmation email with a receipt after registering for an event so that I can confirm my participation.**

**Acceptance Criteria:**

- Test for cases when the payment fails.
  - The participants should have registered and paid the event fees.
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**19. As an admin, I want to be able to remove a college from the platform.**

**Acceptance Criteria:**

- The system allows the admin to remove a college from the platform, immediately deactivating its account and removing all associated events.
  - Upon removal, the admin receives a confirmation message, and the action is logged for audit purposes.
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**20. As a college representative, I want to change the registration deadline as per my convenience.**

**Acceptance Criteria:**

- The event should be already listed by the college.
  - The participants should receive a notification about the update.
  - The system updates and reflects the new deadline immediately across all relevant sections of the event listing.
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**21. As a college representative, I want to add a blog about an event so that I can provide useful information about the event.**

**Acceptance Criteria:**

- The event should be already listed by the college.

- The blog post is displayed on the event page and is accessible to all users interested in the event.
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**22. As a user, I want the platform to load pages within 5 seconds so that I can browse events without unnecessary delays.**

**Acceptance Criteria:**

- The platform must be optimized for fast loading times, including image optimization, minimized HTTP requests, and efficient code execution.
  - The platform must load all primary pages (home, event listing, event details) within 2 seconds under normal traffic conditions.
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**23. As a system administrator, I want the platform to scale automatically during peak event times so that the system can handle an increased number of users without downtime.**

**Acceptance Criteria:**

- The system should be able to scale down when traffic decreases to optimize resource usage and cost.
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**24. As a student, I want my personal and payment information to be securely encrypted so that my data is protected against unauthorized access.**

**Acceptance Criteria:**

- All personal data, including payment information, must be encrypted using industry-standard encryption.
  - Regular security audits must be conducted to identify and fix vulnerabilities.
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**25. As a user, I want the platform to implement two-factor authentication so that my account remains secure even if my password is compromised.**

**Acceptance Criteria:**



- Users must have the option to enable two-factor authentication using methods such as SMS, email, or authentication apps.
  - The platform must display a clear and user-friendly process for setting up and managing two-factor authentication.
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**26. As a participant, I want the platform to be available 99.9% of the time so that I can access event information whenever I need it.**

**Acceptance Criteria:**

- Any scheduled maintenance must be communicated to users at least 24 hours in advance and must be performed during low-traffic periods.
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**27. As a new user, I want the platform to be intuitive and easy to navigate so that I can find and register for events without requiring a tutorial.**

**Acceptance Criteria:**

- User testing must confirm that new users can navigate the platform and complete basic tasks (e.g., registering for an event) without assistance.
  - The platform's UI must follow best practices in usability design, including clear navigation, consistent layouts, and accessible content.
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**28. As an admin, I want the platform to support modular updates so that new features can be added without disrupting the existing services.**

**Acceptance Criteria:**

- The platform's architecture must be designed to allow for modular updates, with minimal dependencies between components.
- Updates must be deployable without requiring downtime for existing services.

