



Software Engineering Iteration 0 – Planning Phase

Group Members:

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Section:

CS-A

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Title of the Project: NaSCon Management System

Problem Statement

The problem of	Efficiently managing the NaSCon event organized annually by FAST National University, Islamabad campus
affects	various stakeholders involved in event organization and participation
the impact of which is	<ul style="list-style-type: none">• Difficulty in managing diverse competitions across multiple categories.• Inefficient handling of participant registrations, team formations, and event scheduling.• Lack of centralized administration leading to potential errors and delays.• Challenges in coordinating sponsorship activities and tracking financial contributions.
A successful solution would be	<p>To involve the development of a user-friendly application that addresses these challenges. The proposed system should:</p> <ul style="list-style-type: none">• Provide a streamlined platform for managing event categories, registrations, and participant information.• Incorporate user roles with varying privileges to ensure secure access and efficient administration.• Offer features for handling event logistics, including scheduling, venue management, and team formation.• Facilitate sponsor interaction and financial tracking, offering different sponsorship packages.

Envisioned Features

1. Participant Registration (Individual and Team)
2. Event Category Management
3. Login and Access Control
4. User Role Management (Admin, Faculty Mentors, Student Executives, Sponsors)
5. Events Registration
6. Event Scheduling and Venue Management
7. Ticket Generation and Distribution
8. Food Registration and Deals
9. Administration Portal for Admin Tasks (Account Management, Faculty Mentor Management, Student Executives Management, Event Management, Sponsor Management)
10. Faculty Mentors Portal for Events Management and Student Executives Management
11. Sponsor Registration and Package Selection
12. Search for Specific Participants
13. Logistics Management
14. Search Functionality for Participants
15. Feedback Collection
16. Payment Gateways
17. Event Calendar Display
18. Customizable Dashboard for Different User Roles
19. Mobile Compatibility for On-the-go Access
20. Event Feedback Form
21. Event Category Filters
22. Reports Generation

User Stories:

- 1. As a participant, I want to register for individual events, so that I can participate in NaSCon competitions.**

Acceptance Criteria:

- Scenario: Registration for Individual Events
- Given: I am on the event registration page
- When: I select the individual event(s) I want to participate in and provide my personal information
- Then: I receive a confirmation email containing event details and my unique participant ID upon successful registration

- 2. As a team leader, I want to register my team for group events, so that my team can compete together in NaSCon.**

Acceptance Criteria:

- Scenario: Registration for Group Events
- Given: I am logged in as a team leader and on the team registration page
- When: I create a team, invite members, select the group event(s), and provide necessary team information
- Then: All team members receive confirmation emails with event details and their unique team ID upon successful registration

- 3. As an administrator, I want to add new events to the system, so that upcoming competitions can be properly managed.**

Acceptance Criteria:

- Scenario: Adding New Events
- Given: I have access to the event management interface
- When: I fill out the event details form including name, category, date, time, venue, and registration price, and submit the form
- Then: The new event is displayed in the appropriate category for participants to register, and I receive a notification confirming successful addition

4. As an administrator, I want to manage event categories, so that I can organize NaSCon competitions effectively.

Acceptance Criteria:

- Scenario: Managing Events Categories
- Given: I am in the event category management interface.
- When: I select an existing event category.
- Then: I can edit the category name and description as needed.

5. As a sponsor, I want to register my company for sponsorship, so that I can contribute financially to NaSCon and promote my brand.

Acceptance Criteria:

- Scenario: Sponsor Registration
- Given: I am on the sponsorship registration page
- When: I provide my company details, select a sponsorship package, and submit the registration form
- Then: My company's information is added to the list of sponsors, and I receive confirmation of successful registration

6. As a student executive, I want to manage the information of participants registered for my assigned event, so that I can ensure smooth event execution.

Acceptance Criteria:

- Scenario: Managing Participant Information
- Given: I am logged in as a student executive and on the event dashboard
- When: I view and edit participant details for my assigned event
- Then: Changes made to participant information are reflected in the system

7. As an event attendee, I want to receive a digital ticket upon successful registration, so that I can access event details conveniently.

Acceptance Criteria:

- Scenario: Receiving Digital Ticket
- Given: I have successfully registered for an event
- When: I complete the registration process
- Then: I receive an email containing a digital ticket with event information, and I can present it on my mobile device or print it out for entry

8. As a participant, I want to have the option to register for food deals during event registration, so that I can plan for meals during NaSCon.

Acceptance Criteria:

- Scenario: Registering for Food Deals
- Given: I am on the event registration page.
- When: I proceed to the food registration section.
- Then: I see options for different food deals available for selection.

9. As an administrator, I want to create new admin accounts, so that I can delegate tasks and responsibilities effectively.

Acceptance Criteria:

- Scenario: Creating New Admin Accounts
- Given: I have access to the admin portal
- When: I fill out the new admin's details form and submit it
- Then: The new admin receives login credentials and access permissions

10. As an event head, I want to be able to modify event timings and venue details, so that I can accommodate changes and ensure smooth event execution.

Acceptance Criteria:

- Scenario: Modifying Event Details
- Given: I have access to the event management tool
- When: I edit event timings, venue information, or any other relevant details
- Then: Changes made are reflected in real-time and communicated to registered participants via email or notifications

11. As an administrator, I want to delete outdated events from the system, so that the events are booked correctly

Acceptance Criteria:

- Scenario: Deleting Outdated Events
- Given: I am on the event management interface
- When: I select outdated events and initiate the deletion process
- Then: A confirmation prompt appears before deletion, and upon confirmation, the event is removed from the system

12. As a sponsor, I want to view the details of sponsorship packages available, so that I can make an informed decision about contributing to NaSCon.

Acceptance Criteria:

- Scenario: Viewing Sponsorship Packages
- Given: I have access to the sponsorship portal
- When: I navigate to the available packages section
- Then: I see details such as sponsorship level, benefits, and associated costs for each package

13. As an administrator, I want to generate a report listing the total amount collected from sponsors for each event category, so that I can track financial contributions effectively.

Acceptance Criteria:

- Scenario: Generating Sponsorship Revenue Report
- Given: I have access to the reporting tool
- When: I select parameters for the sponsorship revenue report and generate the report
- Then: The report displays the total amount collected from sponsors for each event category, and I can export it in a downloadable format

14. As a participant, I want to search for specific events by name or category, so that I can easily find and register for my desired competitions.

Acceptance Criteria:

- Scenario: Searching for Events
- Given: I have access to the search feature
- When: I enter keywords or select event categories
- Then: The search results display relevant events, and I can click on an event to view detailed information and proceed with registration

15. As a logistics head, I want to generate a report listing participants who have registered for food deals, so that I can plan food arrangements accordingly.

Acceptance Criteria:

- Scenario: Generating Food Registration Report
- Given: I have access to the reporting tool
- When: I select parameters for the food registration report and generate the report

- Then: The report lists participants who have opted for food deals along with details of their selected deals, and I can export it in a downloadable format

16. As an administrator, I want to view a list of all faculty mentors, so that I can oversee their roles and responsibilities within NaSCon.

Acceptance Criteria:

- Scenario: Viewing Faculty Mentors
- Given: I am on the admin dashboard
- When: I navigate to the faculty mentor's section
- Then: The list displays details of all faculty mentors including names, assigned categories, and contact information, and I can initiate actions such as editing or deleting their profiles

17. As a student executive, I want to view a list of all registered participants for my assigned event, so that I can communicate important information and coordinate logistics effectively.

Acceptance Criteria:

- Scenario: Viewing Registered Participants
- Given: I am logged in as a student executive and on the event dashboard
- When: I access the list of registered participants for my assigned event
- Then: I see their contact details and registration statuses, and I have the option to send notifications or emails regarding event updates or requirements

18. As a participant, I want to receive timely notifications about event updates, so that I can stay informed and prepared.

Acceptance Criteria:

- Scenario: Receiving Event Notifications
- Given: I have opted in to receive notifications during registration
- When: There are event reminders, schedule changes, or important announcements
- Then: I receive notifications via email or SMS in a timely manner, including relevant details for easy reference

19. As an administrator, I want to integrate payment gateways for secure online transactions during registration, so that participants can conveniently pay registration fees.

Acceptance Criteria:

- Scenario: Integrating Payment Gateways
- Given: I have access to the payment gateway integration tool
- When: I select preferred payment gateways and follow integration instructions
- Then: Participants are presented with secure payment options during registration upon successful integration

20. As a participant, I want to provide feedback on events I have attended, so that organizers can gather insights for improvement and future planning.

Acceptance Criteria:

- Scenario: Submitting Event Feedback
- Given: I am logged into the system as a participant.
- When: I navigate to the feedback section after attending an event.
- Then: I can fill out a form with ratings and comments for various aspects such as organization, venue, event content, and overall experience.

21. As a participant, I want to view an event calendar displaying all upcoming NaSCon events, so that I can plan my participation accordingly.

Acceptance Criteria:

- Scenario: Viewing Event Calendar
- Given: I have access to the event calendar feature
- When: I navigate to the calendar
- Then: I see all scheduled events with details such as names, dates, times, and venues, and I can click on an event to view detailed information or proceed with registration

22. As a participant, I want to access resources and materials related to events, such as competition rules, guidelines, and reference materials, so that I can prepare effectively.

Acceptance Criteria:

- Scenario: Viewing Resources
- Given: I am logged into the system as a participant.
- When: I navigate to the resources section for a specific event.
- Then: I can access and download relevant documents and materials provided by the organizers.

23. As a faculty mentor, I want to view event registrations and participant details only for events under my assigned category, so that I can focus on relevant oversight and support.

Acceptance Criteria:

- Scenario: Viewing Event Registrations
- Given: I am logged in as a faculty mentor
- When: I navigate to the event registrations page
- Then: I see detailed participant information and registration statuses only for events within my assigned category

24. As a faculty mentor, I want to view all events under my assigned category, so that I can oversee their planning and execution.

Acceptance Criteria:

- Scenario: Viewing Events by Category
- Given: I am logged in as a faculty mentor
- When: I navigate to the events page
- Then: I see a list of events categorized by their respective categories, and I can filter events to display only those under my assigned category

25. As an administrator, I want to generate a report listing all registered participants and their information, so that I can manage event logistics effectively.

Acceptance Criteria:

- Scenario: Generating Participant Report
- Given: I have access to the reporting tool
- When: I select parameters for the participant list report and generate the report
- Then: The report includes participant names, contact information, registered events, and any additional details provided during registration, and I can export it in a downloadable format

ROLES

Product Owner (Huzaifa Rabbani i212496)

Duties:

- Define and prioritize the product backlog based on requirements
- Communicate the vision and goals of the product to the Scrum team
- Provide guidance and direction to the Scrum team to ensure the successful delivery of product increments

Scrum Master (Faizan Ali i210422)

Duties:

- Facilitate Scrum events such as sprint planning, daily stand-ups, sprint reviews, and sprint retrospectives
- Ensure that the team adheres to Scrum processes and practices
- Remove impediments or barriers that hinder the progress of the Scrum team

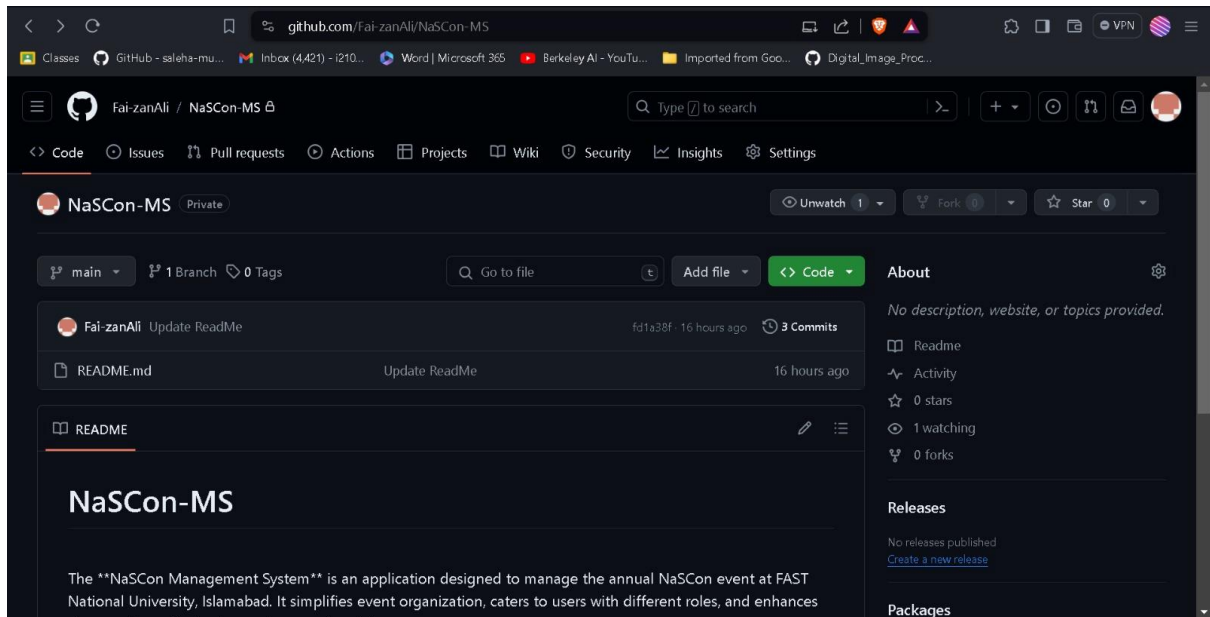
Scrum Team (Huzaifa i212496, Faizan i210422, Asif i210515)

Duties:

- Collaborate with the Product Owner to understand and clarify user stories and acceptance criteria
- Select user stories for a sprint planning
- Improve code quality to meet requirements and test it within the defined sprint timeframe

GitHub Repository

<https://github.com/Fai-zanAli/NaSCon-MS>



Trello

