

# Software Requirements Specification for Yantraksh Technical Fest Web Development

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2023-05-26

## 1 Objective

The objective of this project is to develop a web application for the Yantraksh technical fest. The web application will provide the following features:

- Registration and login for participants
- Information about the fest events and schedule
- Online payment for event registration and other fees
- Discussion forum for participants to interact with each other and with the organizers
- Live streaming of events

## 2 Requirements

The web application must meet the following requirements:

## 3 Functional Requirements

- The web application must be able to handle the following tasks:
  - Allow participants to register and login
  - Display information about the fest events and schedule
  - Allow participants to register for events and pay fees online
  - Provide a discussion forum for participants to interact with each other and with the organizers
  - Live stream events
- The web application must be able to handle a large number of concurrent users.

## 4 Non-Functional Requirements

- The web application must be easy to use and navigate.
- The graphics and animation of the web application must give it a feel of TECHFEST .
- The web application must be secure and protect user data.
- The web application must be scalable to handle a growing number of users and events.

## 5 Use Cases

- The participant visits the web application and clicks on the "Register" link.
- The participant enters their personal information and creates an account.
- The participant receives a confirmation email with their login credentials.
- The participant clicks on the "Login" link and enters their login credentials.
- The participant is logged in to the web application.
- The participant logs in to the web application.
- The participant clicks on the "Events" tab.
- The participant views the list of events and selects the event they want to register for.
- The participant clicks on the "Register" button.
- The participant enters their payment information and pays the registration fee.
- The participant receives a confirmation email for their event registration.
- The participant logs in to the web application.
- The participant clicks on the "Discussion Forum" tab.
- The participant views the list of discussion topics.
- The participant clicks on a discussion topic to view the posts.
- The participant can create a new post or reply to an existing post.
- The participant logs in to the web application.

- The participant clicks on the "Live Streaming" tab.
- The participant selects the event they want to watch.
- The participant watches the live stream.

## 6 System Architecture

The web application will be implemented using a three-tier architecture:

- **Presentation tier:** This tier will be responsible for displaying the user interface and handling user interactions. It will be implemented using HTML, CSS, and JavaScript.
- **Application tier:** This tier will contain the business logic of the web application. It will be implemented using a programming language such as Python or Java.
- **Database tier:** This tier will store the data for the web application. It will be implemented using a relational database management system (RDBMS) such as MySQL or PostgreSQL.

## 7 Development Methodology

The web application will be developed using the agile development methodology. The agile development methodology is an iterative and incremental approach to software development. It involves breaking down the project into smaller tasks and developing and testing each task one at a time. This allows the team to get feedback from users early and often and to make changes to the project as needed.

## 8 Cost Estimation

The estimated cost of developing the web application is 10,000. This includes the cost of hiring a team of developers, purchasing software and hardware, and hosting the web application.

## 9 Schedule

The estimated schedule for developing the web application is 1 month. This includes the time for requirements gathering, design, development, testing, and deployment.

## 10 Conclusion

This SRS document has described the requirements, architecture, development methodology, cost estimate, and schedule for the Yantraksh technical fest web application.

**The team is committed to delivering a high-quality website that meets the technical, economic, and early completion requirements. The team will also use advanced JS and graphic designing techniques to create a visually appealing and interactive user experience.**