AMAZING WEB. DESIGN

WE DESIGN BUSINESSES & BRANDS FOR A MORE HUMAN FUTURE.

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ABOUT AMAZINGWEB.DESIGN

AmazingWeb.Design is a tech company with extensive experience in creating custom apps, websites, and ERP solutions. We have had the privilege of working with prestigious institutions such as the Ministry of Tribal Affairs (Government of India), Pegiune, ITC, and others. Our team specializes in developing user-centric applications for iOS, Android, and cross-platform environments. We are committed to delivering cutting-edge solutions that drive growth and transform businesses. With a focus on innovation and customer satisfaction, AmazingWeb.Design is dedicated to empowering businesses with powerful and customized technology solutions.

SCOPE OF WORK

1. UI/UX Design
2. Admin Panel Development
3. Teacher Panel
4. Student Portal & App
5. A/B Testing

MODULE #1. UI/UX DESIGNING

The UI/UX will have the following:

- **User-Centeric Design:** We will prioritize the needs and preferences of end-users throughout the design process.
- **Information Architecture:** We will create a well-structured and intuitive user experience by organizing content and features effectively.
- **Wireframes and Prototypes:** We will develop wireframes and interactive prototypes to visualize the layout and functionality of both the portal and app.
- **Visual Design:** Our team will craft a visually appealing and consistent design that aligns with the client's branding and aesthetics.
- **User Interface (UI) Elements:** We will design UI elements, including buttons, forms, navigation menus, icons, and interactive components.
- **Color Palette and Typography:** Our design will include a carefully chosen colour scheme and typography to enhance readability and user engagement.
- **Responsive Design:** We will ensure a seamless user experience on various devices and screen sizes, including mobile, tablet, and desktop.
- **Dark Mode Support:** Our app will offer a dark mode option, providing a visually comfortable experience with reduced eye strain in low-light environments.

- **Usability Testing:** We will conduct usability testing with real users to identify any issues and make design improvements.
- **User Onboarding and Guidance:** We will provide a strategy for guiding users through the portal and app, ensuring a smooth onboarding process.
- **Scalability:** We will ensure the design accommodates future updates and expansions of the Scholarship Portal & App

MODULE #2. ADMIN PANEL DEVELOPMENT

The Admin Panel will have the following:

- **User Management System**
  - Create, update, and delete user accounts.
  - Manage user roles and permissions.
  - View and track user activity (Via Google Analytics)

- **Content Management:**
  - Add, edit, and delete scholarship details.
  - Manage test information, including questions, answers, and test schedules.
  - Update study materials and resources.

- **Application Management:**
  - Monitor and manage scholarship applications.
  - Review and approve/deny applications.
  - Track application status and history.

- **Test Management:**
  - Schedule and reschedule tests.
  - Monitor test results and performance analytics.
  - Manage question banks for tests.

- **Communication and Notifications:**
  - Send notifications and updates to users.
  - Implementation of email and/or SMS notifications for important events (application status, test schedules, etc.).

- **Analytics and Reporting:**
  - Generate reports on user activity, application trends, and test performance.
  - Implementation of data visualization tools for easy interpretation via Google Analytics.

- **Security Features:**
  - Implementation of secure authentication and authorization mechanisms.
  - Ensured data privacy and compliance with relevant regulations.

- I**ntegration with External Systems:**
  - Integration with payment gateways for financial transactions.
  - Integration with SMS gateways for notification.
  - Integration with Google Analytics for deep analysis and statistics.

- **Scalability and Performance:**
  - Will design the admin panel to handle growth and increased user activity.
  - Optimized for performance and responsiveness.

- **Search and Filtering Options:**
  - Will provide search and filtering capabilities for efficient data retrieval.

MODULE #3. TEACHER PANEL DEVELOPMENT

The Teacher Panel will have the following:

- **Test Creation and Management:**
  - Create, edit, and organize test materials.
  - Specify test details such as duration, difficulty level, and subject.
  - Set up question banks for different subjects.

- **Question Bank Management:**
  - Add, modify, and categorize questions for easy retrieval.
  - Assign difficulty levels and tags to questions.
  - Search and filter options for efficient question management.

- **Role-Based Access Control (RBAC):**
  - Implement RBAC to control access to different features based on teacher roles.

MODULE #4. STUDENT PORTAL + APP

The student portal + app will have the following:

1. Registration and Login:

- **User Registration:**
  - Students can easily create an account by providing the necessary details, ensuring a smooth registration process.
- **Login Credentials:**
  - Access to the student portal and app is secured with a username and password. Multi-factor authentication may be implemented for added security.
- **Forgot Password:**
  - A "Forgot Password" feature allows students to reset their passwords securely in case they forget them.

2. Scholarship, Exam, and Test Features:

- **Scholarship Listings:**
  - We will provide a user-friendly interface to browse and search through available scholarship opportunities.

- **Application Management:**
  - Students can access and complete scholarship applications online, saving and resuming partially completed applications. They can track the status of submitted applications.

- **Document Upload and Verification:**
  - Uploading required documents for scholarship applications is made easy. Students receive notifications and updates on the status of document verification.

- **Application Deadline Reminders:**
  - Push notifications and email reminders keep students informed about upcoming scholarship application deadlines.

- **Scholarship Details and Criteria:**
  - Detailed information about each scholarship, including eligibility criteria, award amount, and deadlines, is readily available.

- **Application History:**
  - Access to a comprehensive history of past scholarship applications and their outcomes is provided.

- **Notification of Scholarship Awards:**
  - Students receive notifications for scholarship awards and disbursement details.

- **Resource Center:**
  - Students can access a variety of resources and guides on how to prepare for tests.

- **Privacy and Security Features:**
  - We are dedicated to ensuring the security and privacy of sensitive scholarship application information.

- **Opportunities Discovery:**
  - Browse and search through available scholarship opportunities linked to specific exams and tests.

- **Test/Exam Preparation Features:**
  - Access detailed information about upcoming tests and exams, including study materials and syllabus.
  - Receive notifications for upcoming tests, exam schedules, and scholarship details.

- **Admit Card Generation:**
  - Generate and download Admit Cards for registered exams through the portal.

- **Exam / Test:**
  - Take real-time test
  - Auto-Pause and Test Termination: To ensure the integrity of the testing environment, the app incorporates an auto-pause feature. If the user minimizes the app during an ongoing test, the system will automatically pause the test session.

MODULE #5. A/B TESTING

The a/b testing will have the following:

- **Experiment Creation:**
  - We will create multiple variations of specific elements, such as headlines, CTAs, or images, to test within the scholarship portal & app.

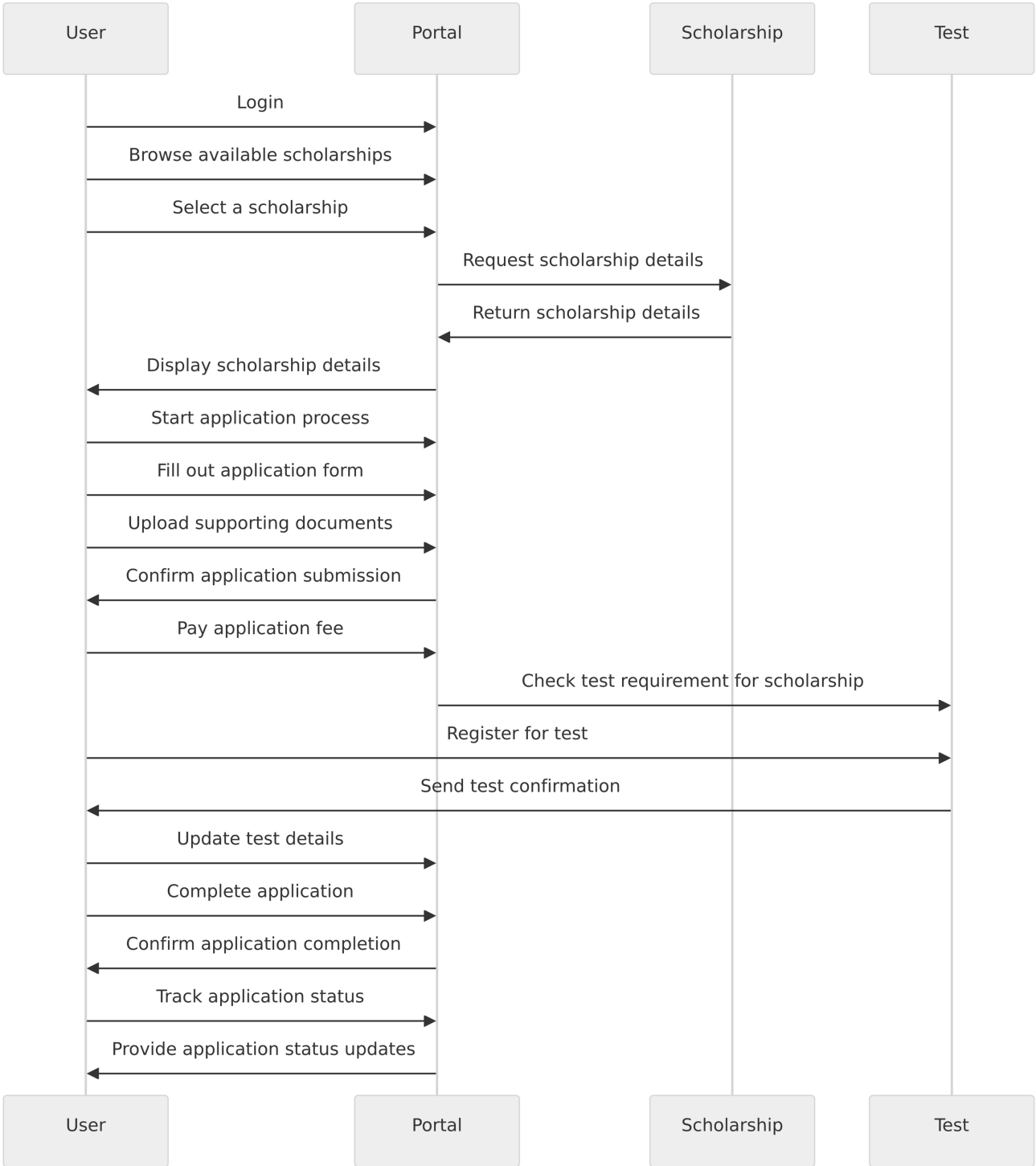
- **User Group Allocation:**
  - Users will be randomly assigned to different groups, ensuring unbiased exposure to each variation.

- **Testing Objectives:**
  - The primary objectives of A/B testing are to optimize user engagement, conversion rates, and the overall user experience in the portal and app.

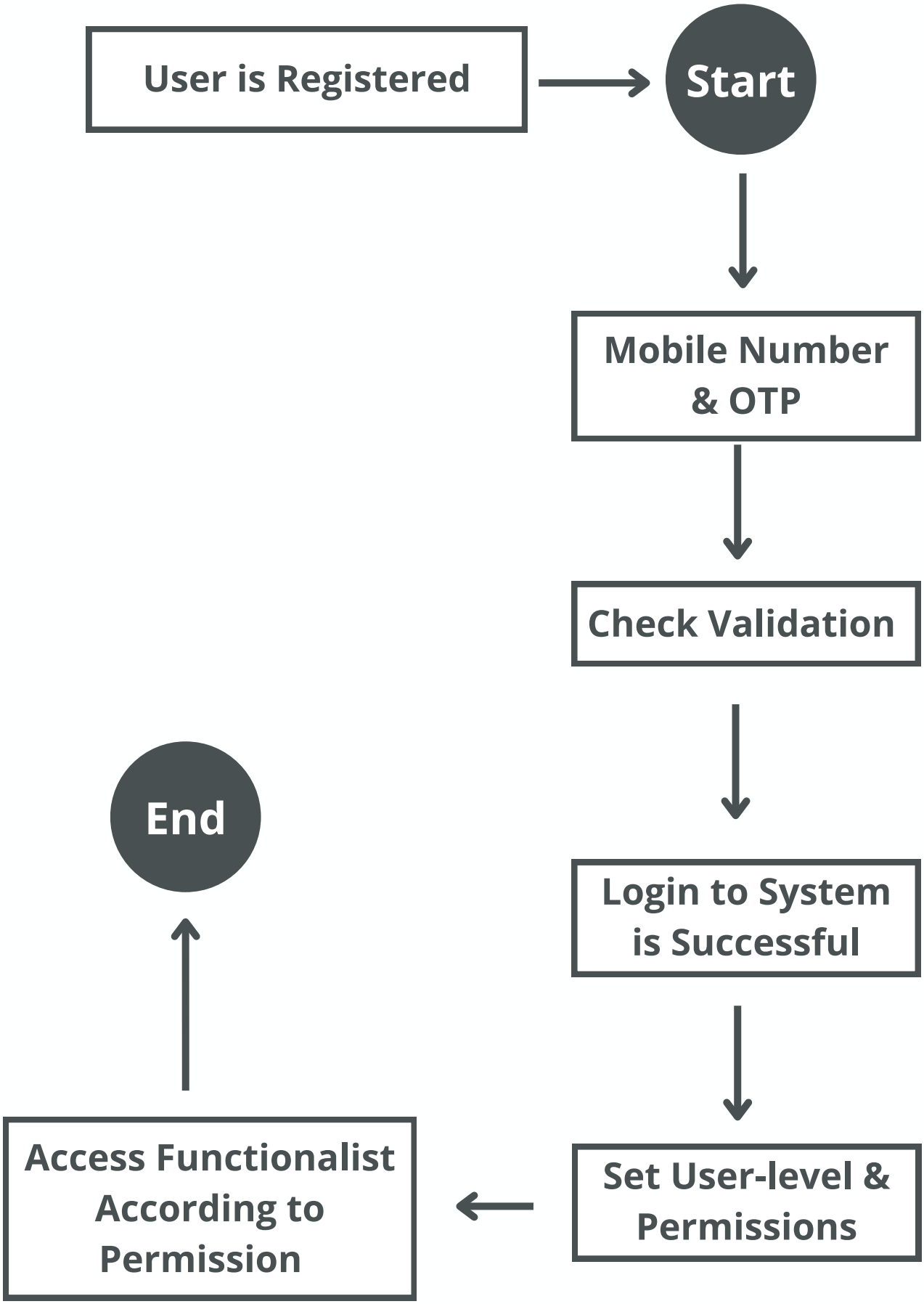
- **Data-Driven Decision-Making:**
  - A/B testing will provide us with real-time data on user interactions and preferences, enabling informed design and content decisions.

- **Statistical Analysis:**
  - We will conduct a thorough statistical analysis of the test results to determine the significance and validity of the findings. This includes analyzing key metrics, calculating confidence intervals, conducting hypothesis testing, and assessing the statistical significance of the observed differences.

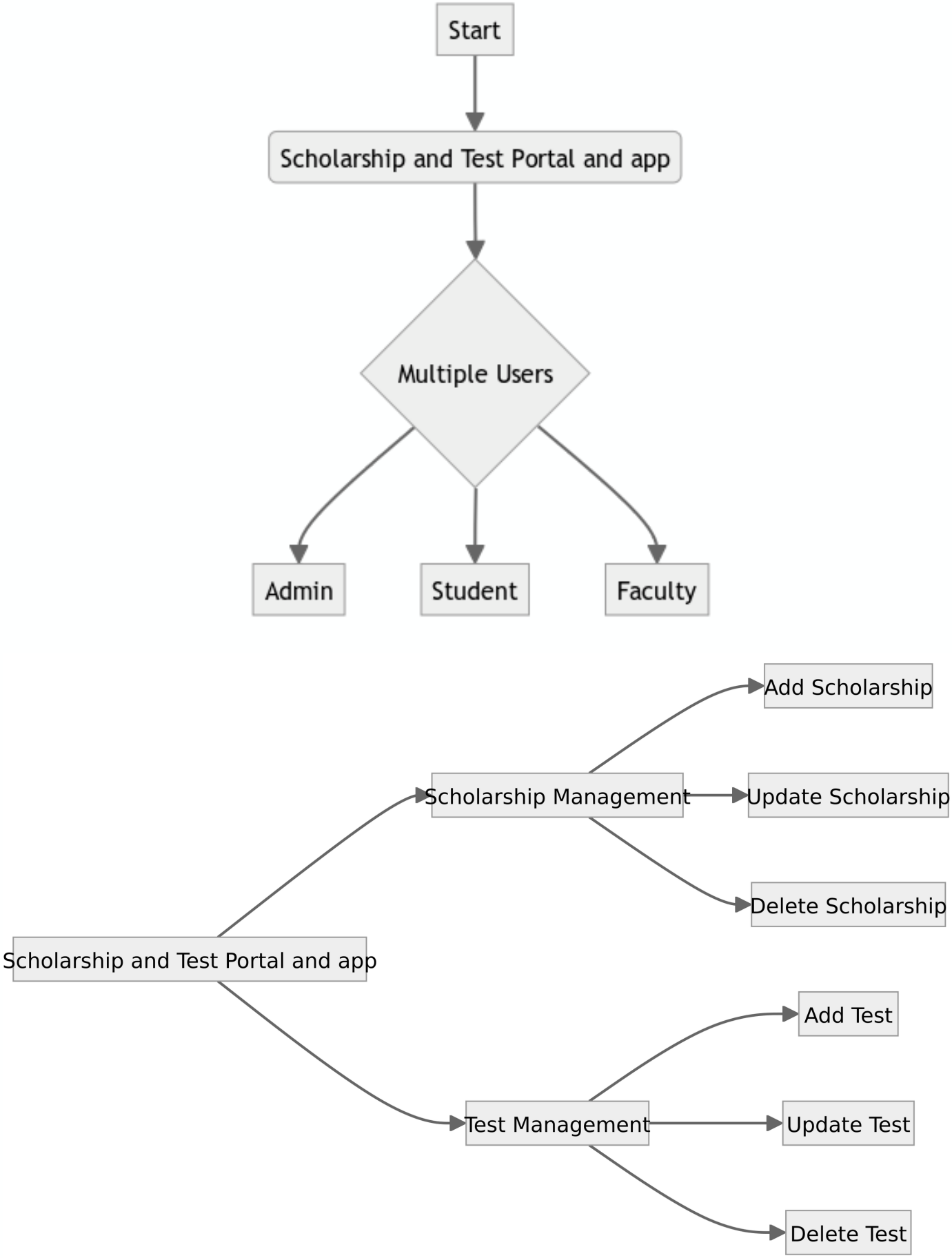
USER FLOW


User
Portal
Scholarship
Test
Login
Browse available scholarships
Select a scholarship
Request scholarship details
Return scholarship details
Display scholarship details
Start application process
Fill out application form
Upload supporting documents
Confirm application submission
Pay application fee
Check test requirement for scholarship
Register for test
Send test confirmation
Update test details
Complete application
Confirm application completion
Track application status
Provide application status updates
User
Portal
Scholarship
Test

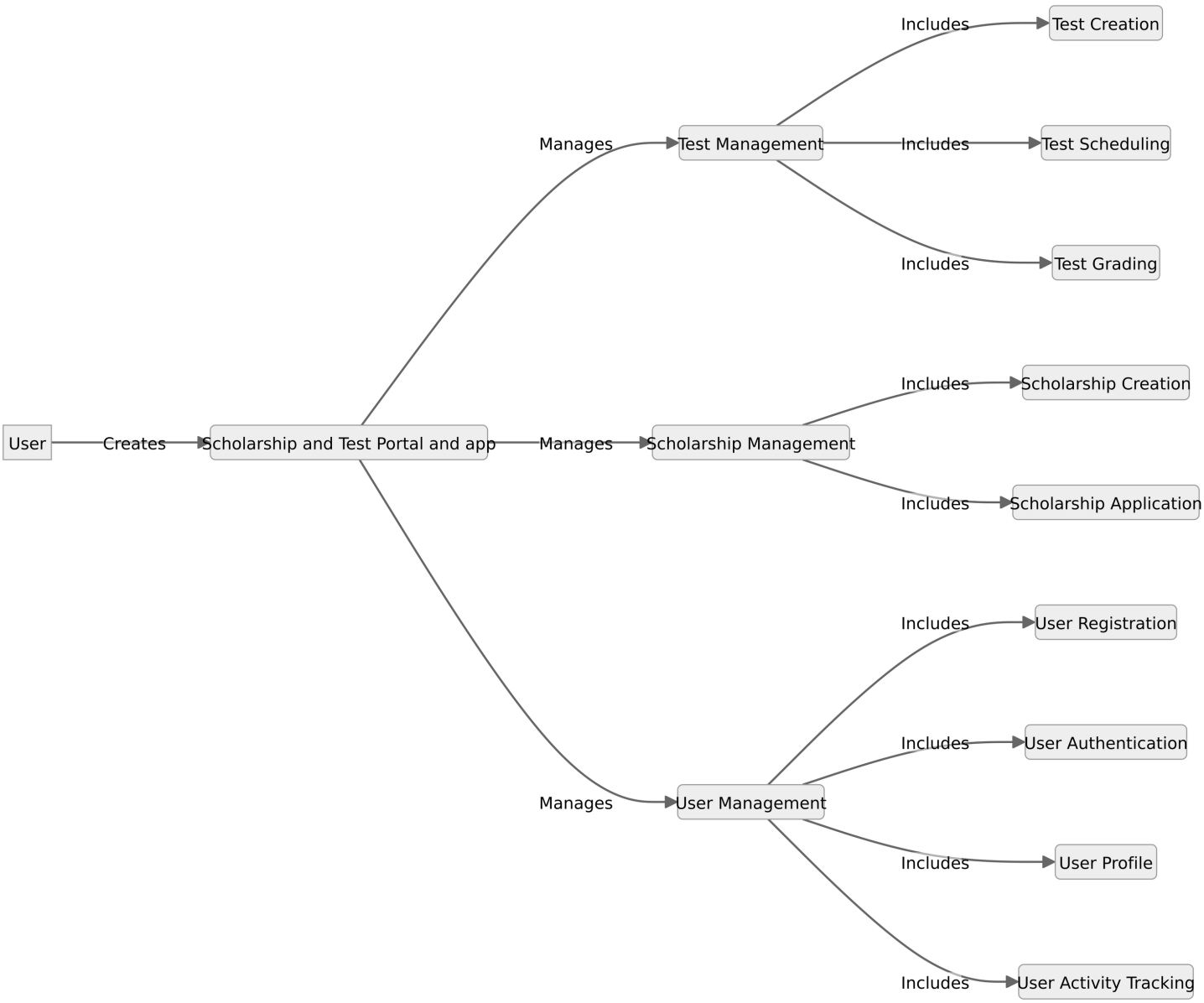
LOGIN ACTIVITY DIAGRAM



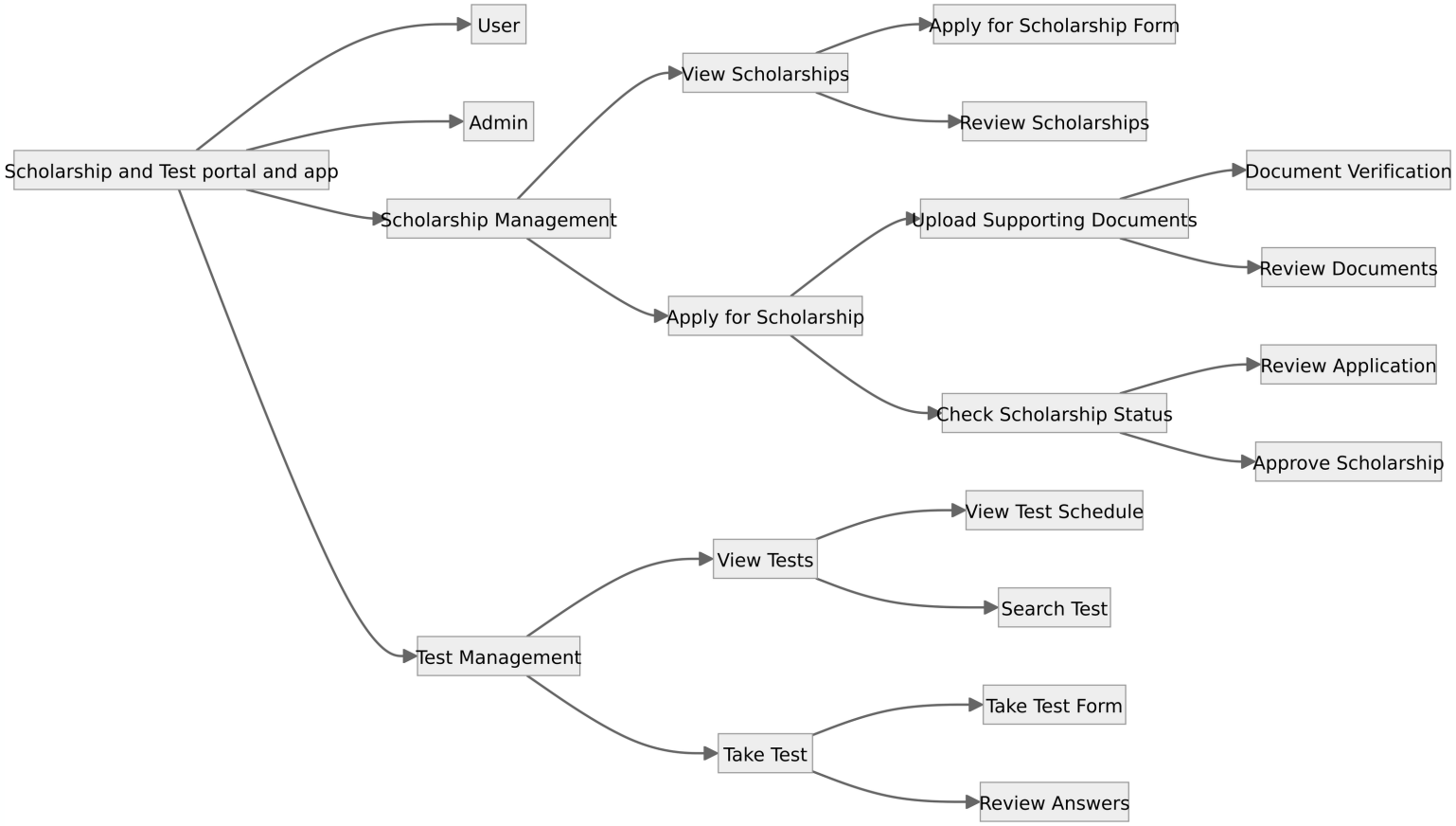
ZERO LEVEL DATA FLOW DIAGRAM



FIRST LEVEL DATA FLOW DIAGRAM



SECOND LEVEL DATA FLOW DIAGRAM



STUDENT REGISTRATION

STEP #1 (BASIC REGISTRATION DETAILS)

- First Name and Last Name
- Mobile Number (Verification with OTP - if required)
- Email ID (Verification with OTP - if required)
- Password
- Submit

STEP #2 (BASIC PERSONAL DETAILS)

- Father's Name
- Mother's Name
- Address
- Date of Birth
- Religion
- Caste
- Aadhar Card Upload / Details (if required)
- Submit

STEP #3 (BASIC EDUCATION DETAILS)

- School/College/Institute Name
- Class & Section
- Board/University Affiliation
- Last Year Percentage
- Roll Number
- Upload Supporting Documents
- Submit

MINIMUM SERVER CONFIGURATION

- NGINX OR APACHE
- 120 GB ROM NVME STANDARD
- 4 GB RAM
- SSL
- DEDICATED IP ADDRESS
- 1 TB BANDWITH

TECHNOLOGY STACK

> ***Technology stack is a combination of frameworks, tools, apps, platforms, and programming languages employed to develop a website or a mobile application.***

As technological tools and platforms layer up one on top of another to ultimately create a fully functioning system, the term sprang from the notion of technologies being stacked on top of each other.

There are 2 main parts of this ecosystem:

- the front end [client-facing]
- the back end [server-facing]

TECHNOLOGY STACK #1

- **LAMP (For Backend)**
  - Operating System: Linux
  - Web Server: Apache
  - Database management: MySQL
  - Scripting Language: PHP
  - Back-end: Laravel
- **JavaScript (For Front-end)**
  - HTML 5, CSS, BootStrap, JavaScript
  - React Native
  - Restful APIs
  - AJAX

TECHNOLOGY STACK #2

- **MERN (Full-Stack)**
  - Operating System: Linux
  - Web Server: Apache
  - Database management: MongoDB/MySQL
  - Scripting Language: Javascript
  - Back-end: Node.js, Express.js
  - Front-end: React.js and React Native