Evaluation App Documentation

# Overview

The Evaluation App is a comprehensive web application designed for managing and conducting evaluations, quizzes, and assessments. It provides separate interfaces for administrators and applicants, with features for user management, quiz administration, and result tracking.

# User Roles

## 1. Administrator

* Full access to the admin dashboard
* Manage users, applicants, and departments
* Create and manage quiz questions
* Configure quiz settings
* View and analyze results

## 2. Applicant/Intern

* Access to the application form
* Take quizzes
* View their results
* Limited access to specific features

# User Stories

## Administrator Stories

* Log in to the admin dashboard
* View overall statistics and recent activities
* Manage user accounts (create, edit, delete)
* View and manage applicant information
* Create and manage quiz questions
* Configure quiz settings (time limit, number of questions)
* View and analyze quiz results
* Manage departments

## Applicant Stories

* Log in to the system
* Fill out the application form
* Take the assessment quiz
* View my results
* Navigate through the application process smoothly

# User Flows

## Authentication Flow

* User visits the application
* User is presented with the login page
* User enters credentials (email/username and password)
* System validates credentials
* Based on user role:
* Admin: Redirected to admin dashboard
* Applicant: Redirected to application form or quiz

## Applicant Flow

* Login
* Fill out application form with:
* - Full name  
   - Email address  
   - Phone number  
   - Department selection
* Submit form
* Take the quiz:
* - View questions  
   - Select answers  
   - Navigate between questions  
   - Submit quiz
* View results

## Admin Flow

* Login to admin dashboard
* Access various management sections:
* - User Management  
   - Applicant Management  
   - Quiz Management  
   - Results Management  
   - Department Management
* Perform administrative tasks
* View and analyze data

# Features

## Authentication System

* Secure login with email/username and password
* JWT-based authentication
* Role-based access control
* Session management
* Secure password handling

## Admin Dashboard

* Overview statistics
* Recent applicants list
* Recent results with percentage scores
* Quick access to all management sections
* Mobile-responsive design

## User Management

* Create new users
* Edit user details
* Delete users
* Role assignment (Admin/Intern)
* User search and filtering

## Applicant Management

* Track applicant information
* View applicant details
* Filter and search applicants
* Department-wise organization
* Application status tracking

## Quiz Management

* Create and manage questions
* Support for multiple question types:
* - Single choice  
   - Multiple choice
* Question categorization
* Quiz settings configuration:
* - Time limit  
   - Number of questions  
   - Question randomization

## Results Management

* Track quiz results
* Calculate percentage scores
* Detailed result breakdowns
* Result filtering and searching
* Export capabilities

# Technical Implementation

## Security Features

* JWT token-based authentication
* Secure password hashing
* HTTP-only cookies
* CSRF protection
* Input validation
* Role-based middleware

## Database Models

* User: Username, Email, Password (hashed), Status (Admin/Intern), Creation date
* Applicant: Name, Email, Phone number, Department, Application date
* Question: Question text, Options, Correct answer, Question type, Category
* Result: Applicant reference, Questions answered, Score, Total questions, Time taken, Submission date
* Department: Name, Description
* QuizSettings: Time limit, Question count, Other configuration options

## API Endpoints

### Authentication

* POST /users/login
* GET /users/isLoggedIn
* POST /users/token
* DELETE /users/logout

### Admin Routes

* GET /admin/dashboard
* GET /admin/applicants
* GET /admin/users
* GET /admin/results
* GET /admin/departments
* GET /admin/questions

### Applicant Routes

* POST /applicants
* GET /form
* GET /quiz
* POST /quiz/submit
* GET /score

# Mobile Responsiveness

* Responsive design for all screen sizes
* Mobile-friendly navigation
* Collapsible sidebar for admin panel
* Touch-friendly interface elements

# Error Handling

* Form validation
* Input sanitization
* Error messages
* User-friendly notifications
* Session management
* Token refresh mechanism

# Future Enhancements

* Email notifications
* Result export to PDF
* Advanced analytics
* Bulk question import
* Custom quiz templates
* Real-time monitoring
* Automated scoring system
* Performance analytics