CAPS System API Documentation

This document outlines the available API endpoints for the CAPS System, organized by user roles and functionality. The API follows RESTful design principles and uses `auth:sanctum` middleware for authentication and role-based access control.

Authentication and Public Endpoints

Method	Endpoint	Description
POST	/register	Registers a new user.
POST	/login	Logs in a user and issues an authentication token.
GET	/roles	Fetches available roles during registration.
POST	/forgot-password	Sends a password reset link to the user's email.
POST	/reset-password	Resets the user's password using a valid token.
GET	/app-version	Returns the current version of the application.

Authenticated Routes (All Roles)

Method	Endpoint	Description
POST	/change-password	Changes the authenticated user's password.
POST	/logout	Logs out the authenticated user.
GET	/user/profile	Retrieves profile details of the user.
POST	/user/update-profile	Updates user profile information.

Faculty, Program Chair, and Dean (Roles 2, 3, 4) - Subject and Assignment Management

Method	Endpoint	Description
GET	/subjects	Lists all subjects.
POST	/faculty/assign-subject	Assigns a subject to a faculty member.
GET	/faculty/my-subjects	Lists subjects assigned to the faculty.
GET	/faculty/availableSubjects	Lists available subjects for assignment.
DELETE	/remove-assigned-subject/{subjectID}	Removes an assigned subject.

Faculty, Program Chair, and Dean (Roles 2, 3, 4) - Question and Choice Management

Method	Endpoint	Description
POST	/questions/add	Adds a new question.
GET	/subjects/{subjectID}/questions	Lists all questions for a subject.
POST	/questions/update/{questionID}	Updates a question.
DELETE	/questions/delete/{questionID}	Deletes a question.
GET	/faculty/my-questions/{subjectID}	Lists questions created by the current user.
POST	/choices/update	Updates multiple choices for a question.
POST	/questions/choices	Adds choices to a question.
GET	/questions/{questionID}/choices	Fetches choices for a specific question.

Faculty, Program Chair, and Dean (Roles 2, 3, 4) - Exam Generation and Preview

Method	Endpoint	Description
POST	/generate-printable-exam/{subjectID}	Generates a printable (PDF) exam.
GET	/api/exam/preview/{subjectID}	Previews a practice exam layout.

Student (Role 1)

Method	Endpoint	Description
GET	/student/practice-subjects	Retrieves subjects available for the student's program.
GET	/practice-exam/generate/{subjectID}	Generates a practice exam for a subject.
POST	/practice-exam/submit	Submits answers for a practice exam.
GET	/practice-exam/history	Retrieves the student's practice exam history.

Program Chair (Role 3)

Method	Endpoint	Description
GET	/program/{subjectID}	Fetches questions by program.

Program Chair and Dean (Roles 3 & 4)

Method	Endpoint	Description
PATCH	/questions/{questionID}/status	Approves or disapproves a question.
GET	/practice-settings/{subjectID}	Fetches the practice exam settings for a subject.

Method	Endpoint	Description
POST	/practice-settings	Creates or updates practice exam settings.
GET	/programs	Retrieves a list of all academic programs.

Dean (Role 4)

Method	Endpoint	Description
GET	/users	Lists all users.
PATCH	/users/{userID}/approve	Approves a user account.
PATCH	/users/{userID}/disapprove	Disapproves a user account.
POST	/users/approve-multiple	Approves multiple user accounts.
POST	/users/activate-multiple	Activates multiple user accounts.
POST	/users/deactivate-multiple	Deactivates multiple user accounts.
PATCH	users/{id}/deactivate	Deactivates a single user.
PATCH	users/{id}/activate	Activates a single user.
POST	/add-subjects	Adds new subjects to the system.
DELETE	/subjects/{subjectID}/delete	Deletes a subject.
PUT	/subjects/{subjectID}/update	Updates subject information.