Internship Portal Documentation

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System Overview:

The Internship Portal is a web application developed to streamline the internship process within a college. It allows faculty members to post available internships, and students can view and apply for these internships through the portal. The system facilitates communication between faculty and students, manages applications and documents, and provides essential features for an efficient internship management process.

Architecture:

The Internship Portal follows a client-server architecture, with the server-side implemented using Node.js and Express.js. The client-side utilizes HTML, CSS, and JavaScript. Here's an overview of the main components:

1. **Frontend:** The frontend is responsible for the user interface and user interactions. It is built using HTML, CSS, JavaScript and Bootstrap.

2. **Backend:** The backend handles the business logic, data storage, and communication with external services. It is implemented using Node.js and Express.js, providing RESTful APIs for frontend communication.

3. **Database:** The system uses a MongoDB database to store data related to internships, applications, users, and other entities.

Database Schemas:

The database schema for the Internship Portal consists of several collections to store different types of data. Here's an overview of the main collections:

1. **Users**: Stores user information, including faculty and student details. Each user has a unique ID, username, email, password, role (faculty or student) and also some

information about the user.There are 2 users Student and Faculty.Both are made in user using mongoose discriminator.

2. **Internships**: Represents the internship listings posted by faculty members. It includes details such as the title, description, duration,Requirement ,the ID of the faculty member who posted it,and some details of the faculty who posted it.

3. **Query**: Contains information about student applications for internships. Each application is associated with an internship and a student, and includes fields for the student's resume, status, and any comments or notes added by faculty members

4. **Message:** It is used to help in communication between the faculty and students.It contains the sender information,Receiver information and the message content.

Authentication and Authorization

The Internship Portal implements user authentication and authorization to ensure secure access to the system. Users are required to register an account and log in using their credentials. The system supports different roles, including faculty and student, and provides role-based authorization to restrict access to certain features based on user roles.

The Authentication is done by **Passport**.It also helps in creating the session for better user experience.

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