ServiceTally: Service Hour Tracking for Schools

Project Summary

This application is designed to streamline the tracking and approving of service hours within educational institutions. It caters to both students and administrators, providing distinct functionalities for each role. Students can post, view, and edit their service events, as well as check their requirement status and manage their profiles, including uploading profile photos. The application tracks the number of service hours students complete, ensuring they meet the requirements set by their respective schools.

Administrators can create and manage school profiles and service requirements, search for students by name or graduation year, and view and edit service events. They can update their own profiles, including uploading profile photos. A key feature of the application is the service event approval workflow, which allows administrators to change the status of service events to "Submitted," "Needs Attention," or "Approved." Each status change is logged in the system, providing a transparent history of the approval process.

User authentication is built into the system, ensuring secure registration, login, and logout processes for both students and administrators. Each user is associated with a specific school, making the service events and requirements contextually relevant. This association ensures that each school has a tailored set of service requirements that students must fulfill, and these requirements can be updated as needed. The application's search and filter tools assist administrators in efficiently managing and reviewing student activities. Overall, this system provides a structured and transparent way to manage service events, ensuring students meet their service requirements and administrators can effectively oversee and approve these activities.

Requirements

A. Student
1. Post new Service Event
2. View their Service Events
3. Edit Service Events
4. View Requirement Status
5. Edit Profile and Upload Profile Photo

B. Admin
1. Create School Profile & Requirements
2. Edit School Profile & Requirements
3. Search Students by Name / Graduation Year
4. View a Student's Service Events
5. Edit Service Event Approval Status (Submitted, Needs Attention, Approved)
6. Edit Admin Profile and Upload Profile Photo

C. Common
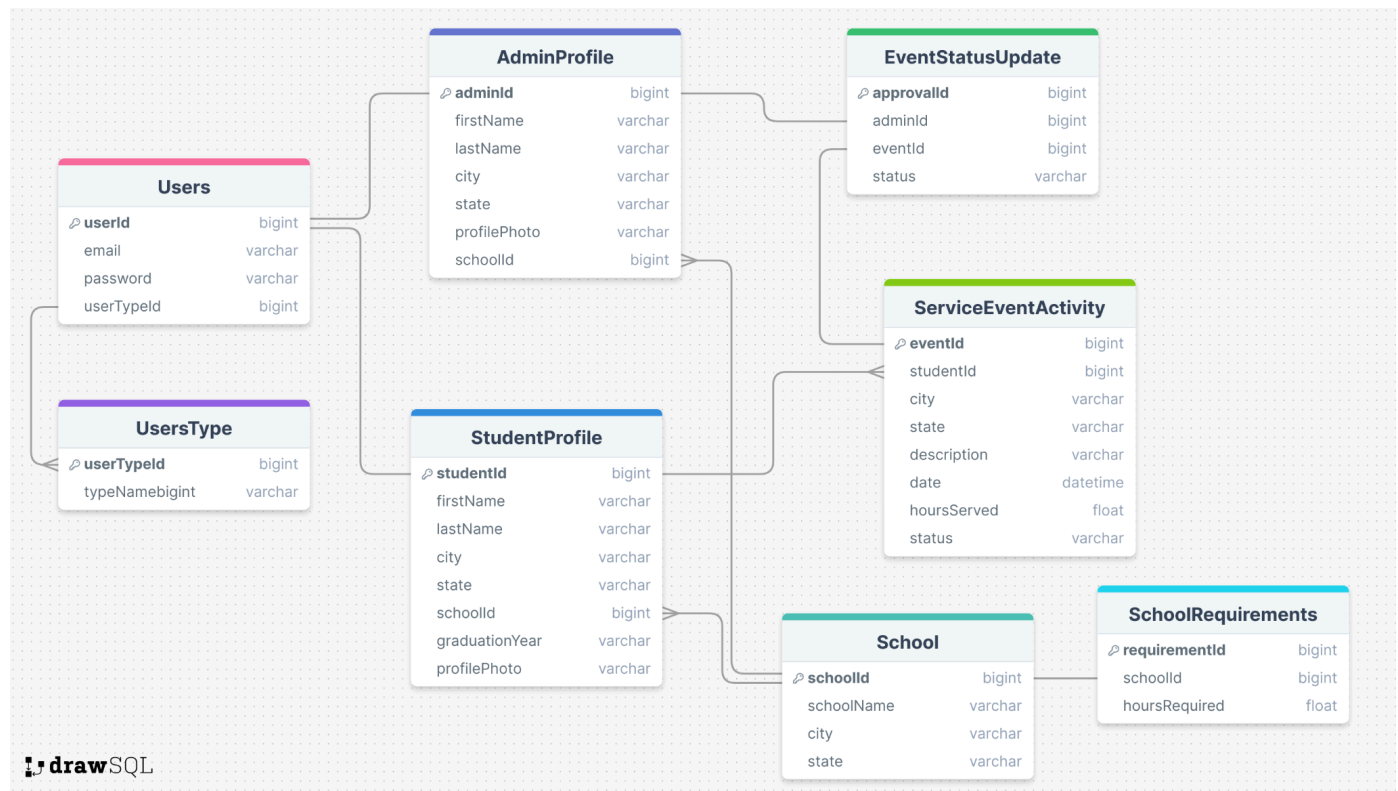1. Register for a new Account
2. Login / Logout

Database Entities

Users	Info about a user: email, password, etc
UsersType	Type/role of user: admin or student
School	Stores information about schools: name, location, etc
AdminProfile	Info about admin: name, city, state, school, etc
StudentProfile	Info about student: name, city, state, school, graduation year, etc
SchoolRequirements	Info about school requirements: school name, location, hours required, etc
ServiceEventActivity	A service event: location, description, date, hours served, status, etc
EventStatusUpdate	Tracks status approval changes by admin

Key Classes

HomeController	Shows home page
UsersController/Service/Repository	Register/Login/Logout
AdminProfileController/Service/Repository	Managing admin profile
StudentProfileController/Service/Repository	Managing student profile
SchoolRequirementController/Service/Repository	Managing school requirements
ServiceEventActivityController/Service/Repository	Managing service events and searching for service events
EventStatusUpdateController/Service/Repository	Changing approval status of service events

ERD

Relationships

- **One to Many**
  - Each UsersType can have many Users
  - Each StudentProfile can have many ServiceEvents
  - Each School can have many Admins
  - Each School can have many Students
  - Each Admin can approve many ServiceEvents
  - Each ServiceEventActivity can have many EventStatusUpdate records

- **Many to One (*inverse of One to Many*)**
  - Many Users can have one UsersType
  - Many ServiceEvents can have one StudentProfile
  - Many Admins can have one School
  - Many Students can have one School
  - Many ServiceEvents can be approved by one Admin
  - Many EventStatusUpdate records can belong to one ServiceEventActivity

- **One to One**
  - Each AdminProfile is associated with one User
  - Each StudentProfile is associated with one User
  - Each School is associated with one set of SchoolRequirements

Development Road Map