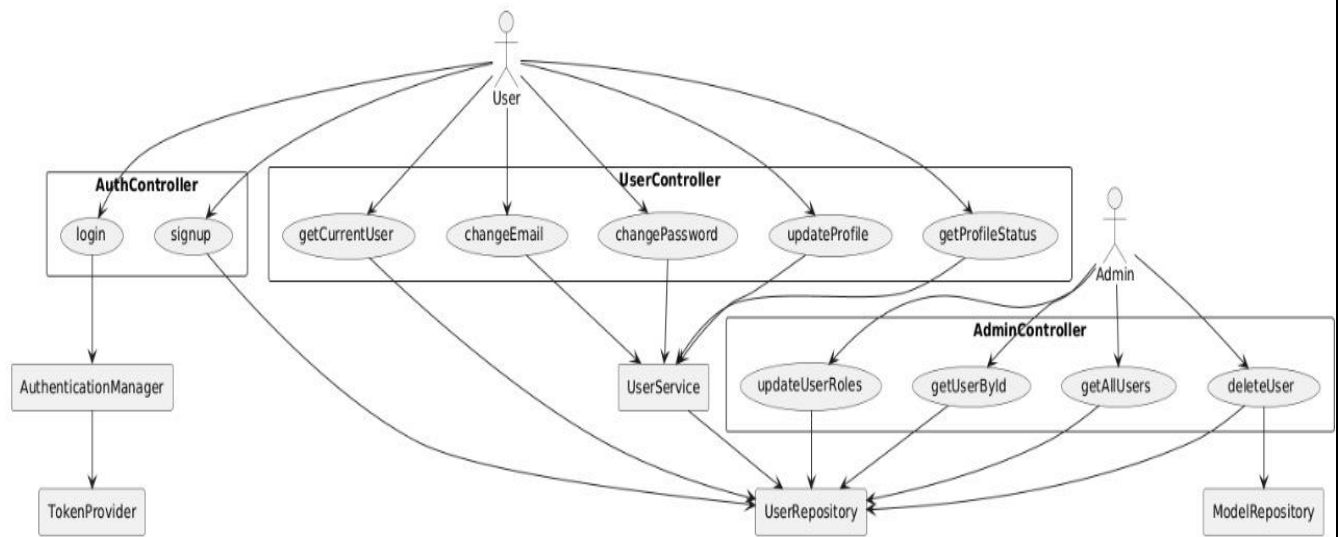


Data Flow Diagram



This DFD diagram represents the **User Management System** architecture. It is divided into three main controllers:

1. AuthController

- Handles user authentication and registration (login, signup).
- Communicates with:
 - AuthenticationManager for authenticating credentials.
 - TokenProvider for generating authentication tokens.

2. UserController

- Manages user-specific operations:
 - getCurrentUser
 - changeEmail
 - changePassword
 - updateProfile
 - getProfileStatus
- These operations interact with UserService, which then accesses UserRepository for database operations related to users.

3. AdminController

- Allows admin-specific functionalities:

- updateUserRoles
 - getUserById
 - getAllUsers
 - deleteUser
- These functions access both UserRepository and ModelRepository.
-

Entities Involved:

- **User:** Represents a system user.
- **Admin:** Represents an administrative user with higher privileges.
- **UserService:** Acts as a service layer between controllers and repositories for user-related operations.
- **UserRepository:** Handles database operations for users.
- **ModelRepository:** Handles database operations related to models (likely for other resources associated with users).

Flow Overview:

- Users interact with the system via controllers.
- Controllers interact with services (like UserService) or directly with repositories (UserRepository, ModelRepository) to perform actions.
- AuthenticationManager and TokenProvider support the authentication flow.