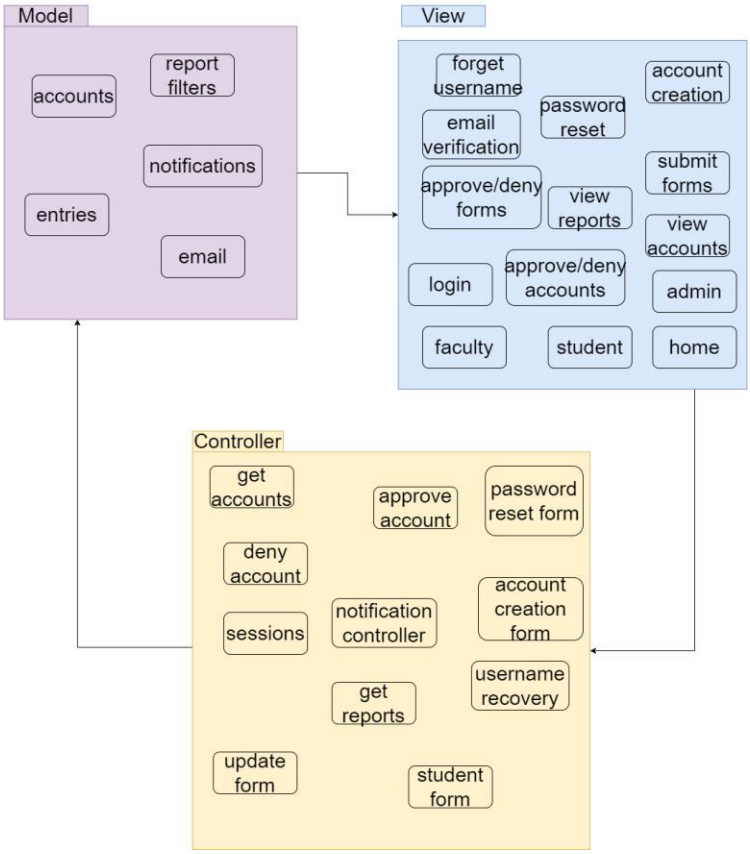
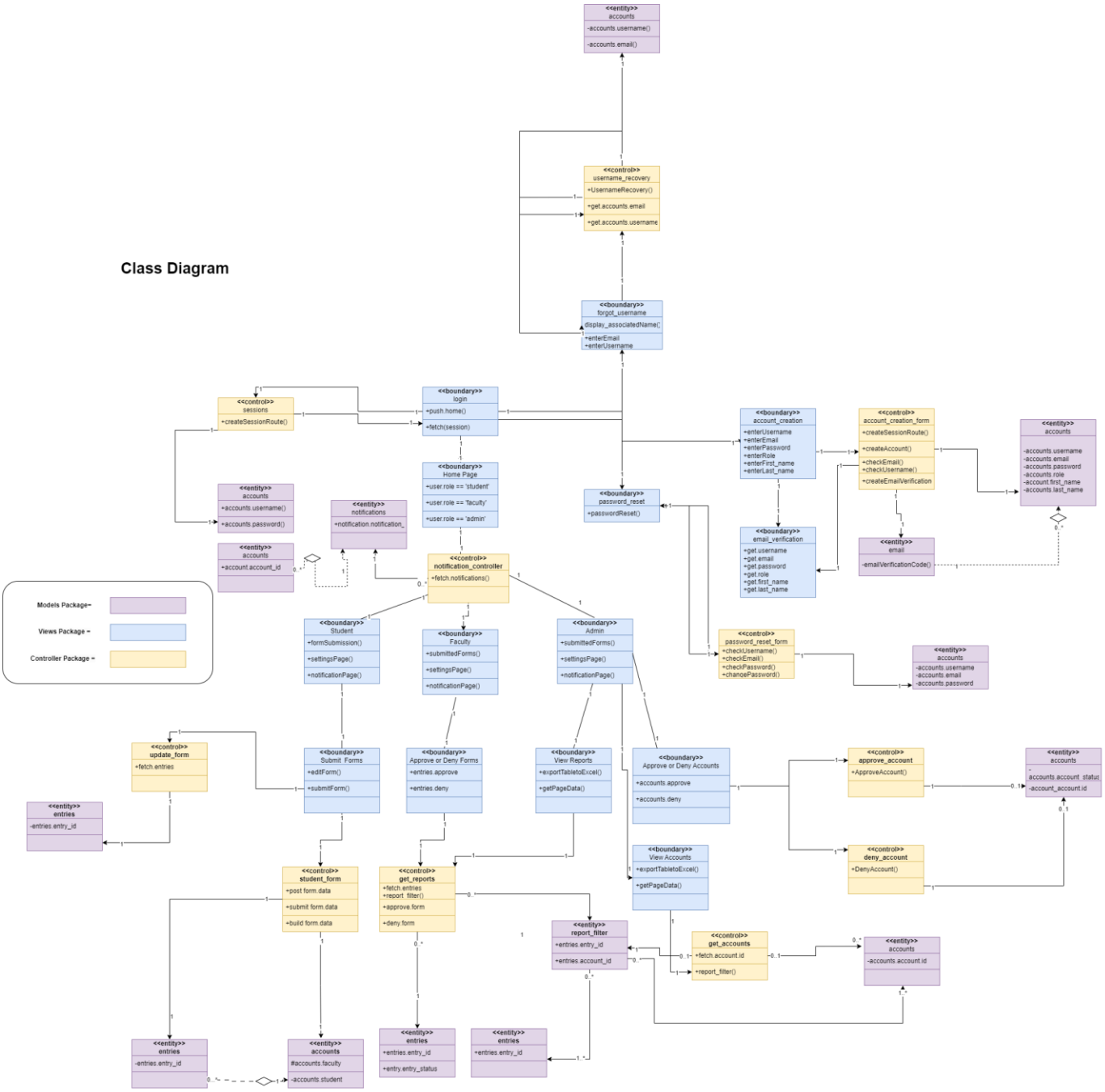
Package Diagram





Views Package

The Views package provides a GUI for the user, whether a student, administrator, or faculty member.

- Login View: Provides the user with a way to access the system. They will need to have created an account first and verified it, to access.
- Forget Username View: In the case that a user has forgotten their username they may verify their account's username to gain access to the system. They may access this view without having to login to the system.
- Password Reset View: In the case that a user has forgotten their password they may verify their account to retrieve their password information and gain access to the system. They may access this view from the login page without having access to the system.
- Account Creation View: A new user is guided to create a new account from this view so that they may log into the system.

- Approve/Deny Forms View: This view is shown to faculty who must approve or deny forms submitted to them by students.
- View Reports View: This view is for administrators who need to find reports or wish to view a list of reports that need to be exported.
- Submit Forms View: This is a view for students who need to submit their hours form to the system.
- View Accounts View: This view is for administrators who need to view a list of accounts created within the system for system management purposes.
- Approve/Deny Accounts View: This view is for administrators who need to approve account requests submitted for faculty and administrator accounts.
- Home View- This is an over encompassing homepage for students/faculty/admins.
- Student View: This is the student homepage.
- Admin View: This is the admin homepage.
- Faculty View: This is the faculty homepage.

Controller Package

- get accounts controller: This retrieves accounts from the database depending on the data filter provided
- approve account controller: This approves an account by changing its status within the database.
- deny account controller: This denies an account by changing its status within the database.
- Password reset form controller: This is responsible for verifying an accounts credentials and then updating an accounts password within the database.
- Account creation form controller: This is responsible for securing the user's input from the account creation view and inserting it as a new unverified account within the database.
- Username recovery controller: This is responsible for retrieving an account's username based upon the associated email provided by the user from the forgot username view.
- Sessions Controller: This creates a session that is responsible for verifying and authenticating a user's attempted login into the system.
- Notification Controller: This is responsible for grabbing notifications associated with an account to display to the user.
- Update Form Controller: This is responsible for updating a form within the database tables.
- Student Form Controller: This is responsible for taking a student's input form information and inserting it into the database.
- Get reports controller: This is responsible for updating the forms status within the database after a faculty has either approved or denied a form.

Models Package

- Account Model: This is a record of all records registered within the system.
- Report Filter Model: This is a list of all report filters that may be applied to the account/report search that will determine what is fetched from the database.
- Notifications Model: This is a record of all notifications that will be generated from the system.
- Email Model: This is a record of email verification codes that will be generated by the system for account verification.
- Entries Model: This is a record of all forms, either approved, denied, or unreviewed, that have been created within the system.

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