

eTendance Feature Set for Iteration 1

Website

- Account creation
 - GUI
 - Sign up form on the front page
 - Fields for:
 - first name (alphabetic characters only, 80 chars max)
 - last name (alphabetic characters only, 80 chars max)
 - username (8-16 alphanumeric characters)
 - password (8-16 alphanumeric characters)
 - confirm password (must match password)
 - email address (valid email address format)
 - professor/student radio buttons
 - Backend
 - Verify all fields are filled out and valid
 - If not, show errors
 - If everything passes, create a new entry in the user table
 - Password encrypted
- Log in
 - GUI
 - Sign in form in the top bar on the front page
 - Fields for:
 - username (8-16 alphanumeric characters)
 - password (8-16 alphanumeric characters)
 - Backend
 - Query database for entry in user table with matching username/password combo
 - If invalid combo entered, show error
 - If valid combo entered, redirect to student or professor home page (depending on type of account)
- Create class
 - Professor accounts only should have this option
 - GUI
 - Create class form located on the professor home page (viewed after log in)
 - Fields for
 - title of course (alphanumeric and special characters, max 80)
 - regular meeting day(s) check boxes
 - Displays link to distribute to students for registration
 - Class appears in professor's list of classes on professor home page
 - Backend
 - Validate form fields

- If invalid, show errors
 - If valid:
 - Create new entry in courses table
 - Generate registration link
- Register for class
 - Student accounts only should have this option
 - GUI
 - Registration link (provided by professor) should be clicked
 - Student prompted to log in to account
 - username (8-16 alphanumeric characters)
 - password (8-16 alphanumeric characters)
 - Success/failure popup appears
 - Class appears in student's list of classes on student home page
 - Backend
 - Query database for entered user/password combo
 - Invalid, show error
 - Valid:
 - Insert new entry into student/course association table
 - Redirect to student home page
- View list of classes
 - Professor and student accounts have this feature
 - GUI
 - On professor/student home page (viewed after log in)
 - Users should see a list of classes that they have either created (professor) or registered for (student)
 - Backend
 - Query database to find all courses either owned by a specific professor or enrolled in by a student
 - If empty set, show none
 - Else, display array of courses
- CSS
 - Arrange elements on front page and student/professor home pages so that they visually match the mockups for the website
 - (see mockups in design doc)

Android (Student App Only)

- Log in
 - GUI
 - Form on first screen of app
 - Fields for:
 - username (8-16 alphanumeric characters)
 - password (8-16 alphanumeric characters)

- Backend
 - Query database for entry in user table with matching username/password combo
 - If invalid combo entered, show error
 - If valid combo entered, redirect to class view screen
- See the list of classes
 - GUI
 - On class view screen
 - Users should see a list of classes that they have registered for
 - Backend
 - Query database to find all courses either owned by a specific professor or enrolled in by a student
 - If empty set, show none
 - Else, display array of courses