

eTendance Feature Set for Iteration 2

Website

- Take Attendance
 - Professor accounts only should have this option
 - GUI
 - A “QR/pin” button next to each class
 - When clicked:
 - Opens a separate tab/window
 - Displays both a QR code and pin number
 - QR and pin both have “Show/Hide” buttons
 - Display timer (10 minutes default)
 - Backend
 - Create new session entry with current date
 - All students enrolled in the class are marked absent until they check in
 - After timer finishes, QR/pin expire
- Check in
 - Student accounts only should have this option
 - GUI
 - Check in form located on the student home page (viewed after log in)
 - Only field accepts pin number
 - Numeric characters only
 - Length undetermined
 - Backend
 - Check to make sure QR/pin not expired
 - If still valid
 - Change student to be marked present for the current session
 - Give confirmation
 - Store device id
 - If invalid
 - Give expiration error
 - Check device id to make sure that it hasn’t been used (can’t check in for more than one person on the same device)
 - If already used
 - Give error
- CSS
 - Continue to 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)
 - Adjust color schemes
 - Professors – red
 - Students – blue

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
- Check in
 - GUI
 - “Check in” button on class view screen
 - Directs user to check in screen
 - Button to scan QR code
 - Form to enter pin and submit
 - Numeric values only, undetermined length
 - Backend
 - Check to make sure QR/pin not expired
 - If still valid
 - Change student to be marked present for the current session
 - Give confirmation
 - Store device id
 - If invalid
 - Give expiration error
 - Check device id to make sure that it hasn’t been used (can’t check in for more than one person on the same device)
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 - Give error