



ASHESI UNIVERSITY

Activity 1: Start of Semester Request and Accessibility

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CS341_B - Web Technologies

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What is the situation?

The Dean of Students (Ashesi University) has requested for a new Attendance Management System.

Basic functionality:

- Login & Registration form - captures email , password , name , role
- Accessibility Compliance

What are the needs? (Technical/Non-Technical, user needs):

- Modern HTML5 features: <input type="email"> for email validation.
- Enforce secure passwords: <input type="password"> and other attributes that can control the length of inputs.
- Utilizing HTML5 features for accessibility : usage of <label> for accessibility.
- Consider WAI-ARIA attributes to enhance screen reader support.
- Comments in code and Documentation document.

Methodology:

- Waterfall Methodology (Subject to change as project scope expands)

Concept Design:

- A welcome page that allows you to choose your role when registering.
- Leads to specialised forms for each role (i.e student, faculty).
- Data validation occurs to ensure that a student does not create a faculty account and vice versa.

Requirements:

- Database of all eligible individuals within the school.
- Strong Cryptography to secure passwords.
- A web server with at least 2 GB of RAM and 4 GB of space.
- An agile framework to encompass the entire project (REACT, Flask, Django).
- WAI-ARIA attributes.

Learning Goals:

- WSGI
- HTML 5, CSS, JS
- Our selected tech stack (framework)