

IT 314

GROUP 6

Features not implemented yet

The below-given features are not yet functional, but we are planning to implement these features in the next version of *AutoAttendanceSystem*.

1) Handling proxies:

- Our *AutoAttendanceSystem* encourages proxies as for now.
- We have planned to implement a feature where the server will check for the *IP address* of the client (student device).
- If the *IP address* is the same as that of the Instructor device (used to start the attendance portal), then only the attendance can be marked otherwise the student won't be able to record his/her attendance.

2) Passport js:

- The problem with passport js is it stores the login information temporarily.
- If we close the browser, then the login credentials will also be erased, but we want the user to be logged in for at least 7 days.

3) Scalability and Performance:

- As for now, our web application is deployed using a free service named *Render*.
- Because of that, the server is slower than our expectations.
- We are planning to buy a paid service like *Hostinger*, *GoDaddy*, or cloud services offered in *Azure* or *AWS* for the deployment of the next version of AAS.

4) Front end not in SPA (Single Page Application) :

- Nowadays, (SPA) Single Page Application is being used widely by most of developers because of its speed and reusability of components.
- These applications have a lot of speed as well as powerful frameworks like *React* and *Angular*.
- These frameworks allow us to implement powerful backend API which are much faster than rendering simple HTML and CSS files.

5) Authentication is not perfect/secured:

- Our authentication is not much secure yet, as it arbitrarily allows any email id to register in our system.
- There should be more secure ways of login like 2-factor authentication and so on.
- We did not realize that the user would require a forget password functionality as we thought that if a user forgot the password, he/she would directly contact the administrator of the website.

6) Requirement of Admin account for the management of the site:

- We will require the admin account.
- If we want to add a new instructor or student, then the admin will authenticate his/her information and then only allows the user to log in.