SCS 3214: Group Project II

Action Plan: Group 32

Panel number: 09

Proposal presentation held on: 2022.07.05

Feedback and Findings

Feedback 1

Quality Attribute (Security): - Identify the difference between encryption and hashing and implement the proper security mechanism for password storage.

	Encryption	**Hashing**
Password	Reversible	Irreversible
Output Length	Variable Length	Fixed Length
Encryption Process	Two way	One way

If the password is encrypted it can be decrypted for the plain text so the possibility is high to get passwords revealed when the algorithm is revealed. But in hashing the passwords are transformed into hash values so that even if a security breach occurs, PINs stay protected.

With these justifications we choose to store the passwords hashed in the database.

Feedback 2

Schedule feasibility: - Time estimation should be changed in the schedule feasibility section.

Time estimation (Man hour calculation) is changed as follows.

No of weeks	*15*
Working hours in weekdays	*4 hrs*
Working hours in weekends	*6 hrs*
Time allocated on the project per week by a single member	*10 hrs*
Total time allocated on the project by a single member	*150 hrs*
*Total time allocated by the group (5 me*mbers) for the project	750 hrs

Feedback 3

Economic feasibility: - Identify a way to maintain the deployment and system maintenance cost

- There will be no consultation fee as we are provided supervisors, there will be no development and software costs and also, we are using free open source technologies.
- But we are planning to deploy the project then there will be a certain cost for maintenance hence for that we will be collecting a service charge from the service providers by using that amount we will be able to cover the maintenance cost.
- This concludes that the project is economically feasible.

Feedback 4

Quality Attribute (Security): - Consider the security in using PayHere as the Payment gateway

- The reason for choosing PayHere is, this is the only solution which provides a payment stimulation facility so for the project testing purpose we will be using Payhere sandbox.
- Also, we are aware about the recent attack happened towards PayHere, But the company stated that no card details have been compromised since the details are stored in the partner bank's PCI DSS certified servers (Sampath Bank and Seylan Bank).

Feedback 5

Legal feasibility: - Consideration about license collision that can happen when using on open source technologies

- Node Js, React JS and Express JS uses MIT license. As all these three technologies are under MIT license there won't be conflicts between the licensing so no legal issues in using these open source technologies.
- We are going to use the components of the MERN stack except the database, as we are using PostgreSQL for database, MERN stack is a well-known stack used for industrial project so there will be no conflicts in license in between the Node JS, React JS and Express JS.
- When it comes to database, PostgreSQL is released under the PostgreSQL License, a liberal Open Source license, similar to the BSD or MIT licenses. Where it says

  "Permission to use, copy, modify, and distribute this software and its documentation for any purpose, without fee, and without a written agreement is hereby granted."
- This concludes that the project is legally feasible.

Reference link

https://snyk.io/learn/what-is-mit-license/

https://opensource.org/licenses/MIT

https://www.postgresql.org/about/licence/