SOFT3888 M17 02 Group3

CP5 - Developing a website for a digital coaching platform to improve mental health and mitigate workplace-related psychological stress.

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Client: Saket Kuberi

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Overview of the overall project

Stakeholders

- 1 Leaders
- 2 Coaches
- 3 Saket Kuberi (Client)

goals

 Help emerging leaders, who are undergoing workplace-related psychological stress.

 Improve resilience, and psychological well-being.



Brief Summary

All the user stories that have not been covered in the first client demo

The changes we have made after the last week's client meeting

Key activities:

Summary of testing methods

format of deployment







Discipline Knowledge

Software Development

- Flask Jinja template engine and the Werkzeug WSGI toolkit
- MVC model Separate internal representations of information
- HTML, CSS, JavaScript Front–end implementation
- Sqlite3 database, triggers
- Tencent LightHouse server –
 Deployment(43.129.230.213)

• hashlib - encrypt the password

Testing

- LightHouse Usability of page
- Think Aloud usability
- Unit test
- Selenium Virtual user testing tool
- Security testing XSS, SQL injection

Discipline Knowledge

Computational Data Science

Clustering

unsupervised learning to implement Al matching System between Leaders and Coaches

Model

- Categorical Data: Set the various distances for different criteria
- Manhattan distance

Other Techniques

- EditorX- Webpage Design
- Coverage.py coverage of unit test
- JWT token authentication
- Zoom API
- jQuery, font-awesome Icons
- formspree E-mail sending api

Quality of whole work

Overall

Testing strategy

- •unit testing
- integration testing
- •acceptance testing

Virtual user

- •testing the UI on website
- testing the functionalities on website

Usability test

- Think aloud
- Lighthouse report

Security Testing

Performing
simulating
attacks(including
SQL injection, XSS)
Improve system by
attack

coverage rate:

Testing Report

Summary

Unit Testing & Integration testing:

Test coverage reach about 80%, almost all function are tested.

Usability testing:

3 participants attempted to complete some tasks, all of them completed most of the tasks and we received some feedback which is helpful for us while improving the design.

Acceptance testing:

All acceptance tests were conducted and the result shows almost all user stories are implemented and satisfied.

Testing Report

Summary

Virtual User:

Every testing for admin site and normal user site has successfully executed and have no bugs

LightHouse Report:

Improved accessibility score from 78.18 to 93.91

Security Testing:

We simulate different attacking method to attack. Our website is secured.





