**Software Engineering group missions and skills audit**

**Team Name: The Biscuit Bulk**

|  |  |
| --- | --- |
| Team Mission1 | Team Mission 2 |
| Project Management | Testing and Data protection |

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| --- | --- | --- | --- |
| **Name** | **ID** | **Mission 1** | **Mission 2** |
| James Tatton | w20021752 | Mobile Website Design (19/5/22 - DOUBLE MISSION TAKEN ON) | Hybrid Apps (UPDATED 19/5/22 - NO LONGER HAS MISSION) |
| Jason Ankers | w20004105 | Mobile Website Development (Client-side) | Payment Gateway |
| Kieran Hodgson | w20002249 | Mobile Website Programming (Server-Side) | Database Access |

**Brief Project Outline**

For this module’s assessment, we have decided to build a website based around a barber shop. The website will provide use to both customers and the barber shop owner through an authority-based login system. On one end, the website will deal with payments from customers, allow customers to arrange or cancel haircuts and view upcoming appointments among other features. On the other side, the administrator will be able to cancel, reject or rearrange bookings with certain clients, change pricing, times and dates live on the website alongside other general administrative features.

**Skills Audit**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Student name: **Jason Ankers** |  |  |  |  |  |
| Skill | I do not know how to do this | I have some idea how to do this, but need to develop my skills | I can do this, but need more practice | I am comfortable doing this | I am skilled in this |
| Score | 1 | 2 | 3 | 4 | 5 |
| Mobile website front-end design (HCI) |  |  |  | **x** |  |
| Web front-end development with HTML/CSS |  |  | **x** |  |  |
| Designing algorithms to solve problems |  | **x** |  |  |  |
| JavaScript client-side development |  |  | **x** |  |  |
| Use of frameworks for front-end development (e.g. Bootstrap, Tailwind) |  | **x** |  |  |  |
| Server-side development using PHP |  |  | **x** |  |  |
| Server-side development using other technology. Specify: | **x** |  |  |  |  |
| Developing AI-driven applications to solve problems | **x** |  |  |  |  |
| Implementing data security strategies |  |  | **x** |  |  |
| Database connectivity development |  |  | **x** |  |  |
| Database design and implementation (SQL) |  |  | **x** |  |  |
| Hybrid App Development |  | **x** |  |  |  |
| Managing a team of developers |  |  |  | **x** |  |
| Designing test plans |  |  | **x** |  |  |
| Creating Software Design Documentation |  |  | **x** |  |  |
| Putting forward suggestions in team meetings |  |  |  | **x** |  |
| Putting forward suggestions by email/text/etc. |  |  |  | **x** |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Student name: **James Tatton** |  |  |  |  |  |
| Skill | I do not know how to do this | I have some idea how to do this, but need to develop my skills | I can do this, but need more practice | I am comfortable doing this | I am skilled in this |
| Score | 1 | 2 | 3 | 4 | 5 |
| Mobile website front-end design (HCI) |  |  |  | **x** |  |
| Web front-end development with HTML/CSS |  |  | **x** |  |  |
| Designing algorithms to solve problems |  |  |  | **x** |  |
| JavaScript client-side development |  |  |  | **x** |  |
| Use of frameworks for front-end development (e.g. Bootstrap, Tailwind) |  | **x** |  |  |  |
| Server-side development using PHP |  |  |  | **x** |  |
| Server-side development using other technology  Specify: | **x** |  |  |  |  |
| Developing AI-driven applications to solve problems | **x** |  |  |  |  |
| Implementing data security strategies |  | **x** |  |  |  |
| Database connectivity development |  |  | **x** |  |  |
| Database design and implementation (SQL) |  | **x** |  |  |  |
| Hybrid App Development |  |  | **x** |  |  |
| Managing a team of developers |  | **x** |  |  |  |
| Designing test plans |  |  |  | **x** |  |
| Creating Software Design Documentation |  |  |  | **x** |  |
| Putting forward suggestions in team meetings |  |  |  | **x** |  |
| Putting forward suggestions by email/text/etc. |  |  |  | **x** |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Student name: **Kieran Hodgson** |  |  |  |  |  |
| Skill | I do not know how to do this | I have some idea how to do this, but need to develop my skills | I can do this, but need more practice | I am comfortable doing this | I am skilled in this |
| Score | 1 | 2 | 3 | 4 | 5 |
| Mobile website front-end design (HCI) |  | **x** |  |  |  |
| Web front-end development with HTML/CSS |  |  |  | **x** |  |
| Designing algorithms to solve problems |  |  | **x** |  |  |
| JavaScript client-side development |  |  | **x** |  |  |
| Use of frameworks for front-end development (e.g. Bootstrap, Tailwind) |  |  | **x** |  |  |
| Server-side development using PHP |  |  | **x** |  |  |
| Server-side development using other technology  Specify: | **x** |  |  |  |  |
| Developing AI-driven applications to solve problems | **x** |  |  |  |  |
| Implementing data security strategies |  | **x** |  |  |  |
| Database connectivity development |  |  | **x** |  |  |
| Database design and implementation (SQL) |  |  | **x** |  |  |
| Hybrid App Development |  | **x** |  |  |  |
| Managing a team of developers |  |  |  | **x** |  |
| Designing test plans |  |  |  | **x** |  |
| Creating Software Design Documentation |  |  | **x** |  |  |
| Putting forward suggestions in team meetings |  |  |  | **x** |  |
| Putting forward suggestions by email/text/etc. |  |  |  | **x** |  |

## **Skills Audit Summary**

Use scores (1-5) from individual skills audits

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Jason Ankers | Kieran Hodgson | James Tatton | N/A |
| Mobile website front-end design (HCI) | 4 | 2 | 4 | N/A |
| Web front-end development with HTML/CSS | 3 | 4 | 3 | N/A |
| Designing algorithms to solve problems | 2 | 3 | 4 | N/A |
| JavaScript client-side development | 3 | 3 | 4 | N/A |
| Use of frameworks for front-end development (e.g. Bootstrap, Tailwind) | 2 | 3 | 2 | N/A |
| Server-side development using PHP | 3 | 3 | 4 | N/A |
| Server-side development using other technology  Specify: | 1 | 1 | 1 | N/A |
| Developing AI-driven applications to solve problems | 1 | 1 | 1 | N/A |
| Implementing data security strategies | 3 | 2 | 2 | N/A |
| Database connectivity development | 3 | 3 | 3 | N/A |
| Database design and implementation (SQL) | 3 | 3 | 2 | N/A |
| Hybrid App Development | 2 | 2 | 3 | N/A |
| Managing a team of developers | 4 | 4 | 2 | N/A |
| Designing test plans | 3 | 4 | 4 | N/A |
| Creating Software Design Documentation | 3 | 3 | 4 | N/A |
| Putting forward suggestions in team meetings | 4 | 4 | 4 | N/A |
| Putting forward suggestions by email/text/etc | 4 | 4 | 4 | N/A |

In terms of strengths and weaknesses, Jason and James demonstrated the most strength in more front-end design and development areas whereas Kieran stood out to be the more skilled when it came to back-end areas. Moreover, all the members of this team demonstrated strength in management, in which case it was decided that the mission roles would be distributed accordingly. Weaknesses reflected overall in AI driven software as none of the team members had been exposed to AI programming at the time of the skill audit generation. Missions were given, partly based on the skills audit, and partly based upon who felt the most confident with the given missions. Each team member is happy with the missions that have been distributed.