**Week 1&2:**

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| **Task** | **Description** | **Hours spent** |
| Exploring Django and its library | Learn how Django works and read up documentation on libraries/api used in the provided codes from last year’s fyp | 4 |
| Study Report and Codes | Try to understand the structure of the database (relationship between entities) and the architecture of the application (REST oriented application) | 3 |

Todo:

* Learn React.js for the front-end, and how it will consume data from the backend.
* Learn SpringBoot, try to come up with a demo of two features, if fail go back to Django.
* Learn how the calendar can be utilised.

**Week 3:**

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| **Task** | **Description** | **Hours spent** |
| Exploring Spring Boot | Learn how to create and run a simple Java Spring Boot application → Create a HelloWorld example | 2 |
| Build Spring Boot Application to return data in JSON format | Learn how to create a more complex Spring Boot application that can return data on receiving requests → Try return data in JSON format. | 2.5 |
| Create Database | Create a simple database with one table where the application can query data from. (to test the application above) | 0.5 |
| Create Controller and Service to return data | * Create services under service package to return data from the database (using repository interfaces) * Controller is used to handle request, | 3 |

**Week 4:**

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| **Task** | **Description** | **Hours spent** |
| Add more entities to database | Add project entity and task entity | 0 |
| Add Entity, Repository, Services and Controller | Create class, repository and services. | 3 |
| Develop function to add new data to database | Add new data to database through the repository and services | 1 |
| Learn how to make more complex query with Spring Data JPA. | Perform more complex than just findAll(), findbyID()  → Use @Query annotation from JPA. | 1 |
| Learn React.js | Familiarise with React.js framework and features. | 3 |

**Week 5:**

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| **Task** | **Description** | **Hours spent** |
| Further learning on React.js | Learn how to fetch data from API, and render data. | 0 |
| Push back-end code to git |  | 0.5 |
| Further study of last-year FYP frontend code and design. | Study how the Calendar based design is implemented. | 2 |