CA2 Individual Report

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| Name | Angie Wu En Qi |
| Student Id | P2322993 |
| Class | Example: DIT/FT/1B/04 |
| Github Repository URL | Example: <https://github.com/ST0503-BED/bed-ca2-Liwenhannnie> |
| Github Account ID | liwenhannnie |

For each competencies, find links to pull requests/commits/files that demonstrate the completion of the requirement. Replace each “**?**” with your Self Rating.

For Self Rating, you may rate yourself accordingly if you feel that you:

1. Have little or **no** understanding. and did not attempt the requirement
2. Have **limited** understanding of the specific competency
3. Have **basic** understanding and only able to replicate examples from tutorials/practicals.
4. Have **adequate** understanding and can extend from what you have learned to fulfil specifications.
5. Have **solid** understanding in the specific competency, able work on the requirement without much references.
6. Have **excellent** understanding and implemented the requirement according to latest industry guidelines, best practices and documentations.

**Important**

1. You are require to provide for each competency:
   * A brief **description**
   * **One or two** of your best implementations with URL **link** to respective repository request/commits/files.  
     **The implementations may come from Section A or B.**
   * You may also provide **screenshots** using POSTMAN to test API test.
2. You are to ensure the hyperlink in this document works. **Failure to do so will result in a 50% deduction of marks.**

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| No. | Competencies | Describe What Was Done | Self Rating |
| 1 | Backend Server | I fixed my loopholes from CA1 such as allowing enemy/attacker to have negative health.  I changed my backend to check if there Is a middleware that follows the call  I changed my levels so that you need a certain amount of points to upgrade to the next rank.  I changed so that the fairies table have their own respective points.    [*https://github.com/ST0503-BED/bed-ca2-Liwenhannnie/tree/main/src/controllers*](https://github.com/ST0503-BED/bed-ca2-Liwenhannnie/tree/main/src/controllers) | 5/5 |
| 2 | Functionality | *(Did your features implemented meets the specified requirements and fulfils its intended purpose?)*  Yes, my features meet the specified requirements and fulfil its intended purpose. Such as check if the task was update properly in Section B.  <https://github.com/ST0503-BED/bed-ca2-Liwenhannnie/blob/main/public/task.html> | 3/5 |
| 3 | Code Quality | *(How did you organise your code to ensure maintainability, readability and adherence to coding best practices?)*  I use modules to group related functions and data in order to promote reusability.  I use formatting tools such as prettier to enforce a consistent style automatically | 4/5 |
| 4 | Modularity | *(How did you've organized your project to promote code reusability and maintainability?)*  Using of modules allows me to reuse my code. For example I reused the code readUserBylocalsId  Using packages allow me to make components reusable.    [*https://github.com/ST0503-BED/bed-ca2-Liwenhannnie/blob/main/src/routes/userRoutes.js*](https://github.com/ST0503-BED/bed-ca2-Liwenhannnie/blob/main/src/routes/userRoutes.js) | 5/5 |
| 5 | Error Handling | *(How did you manage errors, provide informative feedback, and handle exceptional situations?)*  I did error logging to capture and store errors.  I use appropriate HTTP status code such as using 200 for OOK and 400 for Bad request and 500 for internal server error.  [*https://github.com/ST0503-BED/bed-ca2-Liwenhannnie/blob/main/src/controllers/userController.js*](https://github.com/ST0503-BED/bed-ca2-Liwenhannnie/blob/main/src/controllers/userController.js) | 5/5 |
| 6 | Documentation | *(What was written for comments, readme and external documentation?)*  I wrote comments for each module.export to state what their use is and what question they relate to.  And state what is my thought process throughout creating mysql and my javascript.  [*https://github.com/ST0503-BED/bed-ca2-Liwenhannnie/blob/main/src/controllers/enemyController.js*](https://github.com/ST0503-BED/bed-ca2-Liwenhannnie/blob/main/src/controllers/enemyController.js) | 2/5 |
| 7 | JWT for Authentication | *(How did you generate, validate, and manage user tokens?)*  Using what was taught in class. I used the codes to generate and validation and store user tokens | 5/5 |
| 8 | BCrypt for Password Hashing | *(How did you securely store and validate user passwords)*  I compared so that that the password matches what the user has registered    [*https://github.com/ST0503-BED/bed-ca2-Liwenhannnie/blob/main/src/middlewares/bcryptMiddleware.js*](https://github.com/ST0503-BED/bed-ca2-Liwenhannnie/blob/main/src/middlewares/bcryptMiddleware.js) | 4/5 |
| 9 | Frontend to Backend HTTP Requests | *(How did you setup frontend communication with the backend?)*  I use fetch request in my javascript frontend files    [*https://github.com/ST0503-BED/bed-ca2-Liwenhannnie/blob/main/public/js/showAllFairyToken.js*](https://github.com/ST0503-BED/bed-ca2-Liwenhannnie/blob/main/public/js/showAllFairyToken.js) | 3/5 |
| 10 | HTML & CSS Proficiency | *(Provide example of how you managed to create structured layouts and visually appealing styles)*    [*https://github.com/ST0503-BED/bed-ca2-Liwenhannnie/tree/main/public*](https://github.com/ST0503-BED/bed-ca2-Liwenhannnie/tree/main/public) | 5/5 |
| 11 | Frontend Framework | *(What did you do to enhances the user experience and simplifies complex tasks?)*  Simple buttons and states the description of what to fill to update the things  <https://github.com/ST0503-BED/bed-ca2-Liwenhannnie/blob/main/public/js/getSingleFairyInfo.js> | 4/5 |
| 12 | JavaScript and DOM Manipulation | *(How does your frontend utilise dynamic content and DOM manipulation?)*  Use document.getElementById and document.querySelector etc  <https://github.com/ST0503-BED/bed-ca2-Liwenhannnie/blob/main/public/js/showAllFairyLevel.js> | 4/5 |