

Criterion B – Record of Tasks

Task Number	Planned Action	Planned Outcome	Time estimate	Target Completion Date	Criterion
1	Initial meeting with client	Discussed the issue faced by the client.	2 hours	1 st May 2020	A
2	Second meeting with client for discussing the issue	Outlined specific details & requirements for the issue	1 day	7 th May 2020	A
3	Designing the proposed solution	Come up with a proposal for the solution, including its design & interface mockups	1 day	13 th May 2020	B
4	Third meeting with client – discussion on proposal	Obtained feedback on the proposal	2 hours	14 th May 2020	A
5	Further prototyping & designing of the proposal	Made final adjustments to original design and proposal	2 hours	22 nd May 2020	B
6	Fourth meeting with client – finalize solution	Ensured client is satisfied with the finalized proposal & design of the solution	1 hour	31 st May 2020	A
7	Sketching/designing key functionality and database structures needed for the solution	Created flowcharts and/or pseudocode describing the important & critical parts of the solution, and entity diagrams describing the database structures.	1 day	7 th June 2020	B
8	Database normalization & deciding which database to use	Normalized database structures, at least up to third normal form. Decided upon the database management system to be used.	2 hours	10 th June 2020	B
9	Set up development environment	Set up IDE and tools needed for software development in Java. Installed tools/drivers needed for the database system.	1 day	28 th June 2020	C
10	Designing JavaFX scenes for the GUI	Finished designing the primary JavaFX scenes for the application with SceneBuilder, and obtained the resulting FXML files.	1 week	12 th July 2020	C
11	Add boilerplate JavaFX controllers for primary scenes	Written basic boilerplate for the controllers of the primary/important scenes of the application, and tested them to ensure controllers and FXML scenes are functioning smoothly	1 day	15 th July 2020	C

12	Start development of back-end logic	Added a new package to the project for handling the back-end logic, and tested it to ensure the both the back-end and front-end packages (ibia.app and ibia.core) are able to communicate with each other.	1 day	18 th July 2020	C
13	Write the database connection logic, and a java class for interacting with the database.	Written a java class that handles the database connection, provides methods for simple queries and exposes the underlying database client for more complex queries.	3 days	22 nd July 2020	C
14	Work on back-end logic, including application entities and utility classes	Finished writing the main entities involved in the application, as well as utility classes (such as for handling IDs) and a client class for exposing back-end functionality.	5 days	29 th July 2020	C
15	Write unit tests for back-end package	Finished writing automated unit tests for the back-end logic, including the database class and utility classes. Ensured tests pass.	3 days	2 nd August 2020	C
16	Connect back-end functions to the front-end package.	Functionality of the back-end package, such as database methods, has been integrated within the front-end package and tested.	1 day	5 th August 2020	C
17	Write logic for loading and displaying scenes, and navigation around the application.	Written a utility class for loading scenes dynamically from the FXML files and added navigation logic to load the appropriate scene when a button is clicked, along with the data inside it.	3 days	15 th August 2020	C
18	Receive feedback from the client on the product so far.	Contacted the client and discussed how development of the solution is progressing, as well as obtained any early feedback the client had.	1 hour	17 th August 2020	C
19	Create assets and images needed for the application.	Created images and icons such as the logo for the Welcome screen and application window icons. A simple photo editor was used (paint.NET)	3 days	24 th August 2020	C

20	Testing and debugging of issues and errors in the codebase.	Tested the product so far to look for issues, errors and unhandled exceptions or exceptional cases. These were identified and fixed.	1 week	7 th September 2020	C
21	Update unit tests	Updated unit tests to account for any changes made in the application since they were last written. Ensured tests are passing.	1 day	14 th September 2020	C
22	Write comments to document codebase.	Written comments following the JavaDoc format for most public methods in both the front-end and back-end packages.	1 week	28 th September 2020	C
23	Finalize product for release.	Compiled and packaged the back-end and front-end together, and exported the product for distribution to client.	1 day	19 th October 2020	C
24	Allow client to test the product and provide feedback.	Allowed client to test the finalized product and received feedback on it.	1 day	26 th October 2020	C
25	Final changes to product if necessary.	Final changes have been made, to the satisfaction of the client.	1 day	3 rd November 2020	C
26	Package and distribute final product.	The package has been distributed to the client, ready to be used.	1 hour	8 th November 2020	C