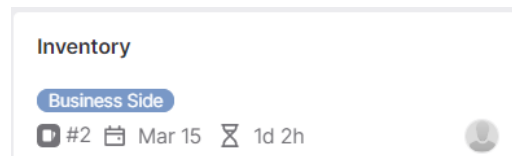


Submission 2

Agile estimation of cards:

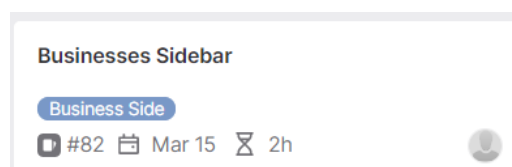
I took an Agile approach to estimating the time required for the Kanban cards that I have been assigned to.

Inventory – 10 hours



- **Add Items**
Button that allows businesses to add items to their inventory list. Creates a popup on the page including 'Item Name, Quantity, Category'. Also includes a checkbox for 'Product' and if ticked 'Price, Image' option will appear.
- **Delete Items**
Button that allows businesses to delete items from their inventory list. Creates a popup on the page including 'Item Name, Category' to know which needs to be removed.
- **Modify List**
Button that allows businesses to modify an items details in their inventory list. Creates a popup on the page including 'Item Name, Quantity, Category'. Also includes a checkbox for 'Product' and if ticked 'Price, Image' option will appear.
- **Order Alphabetically**
drop list that allows a business to change the table so it can be viewed alphabetically
- **Order by Quantity**
drop list that allows a business to change the table so it can be viewed in order of quantity
- **Add Category**
button that allows businesses to add categories to separate inventory if needed
- **Delete Category**
button that allows businesses to delete categories if needed

Business Sidebar – 2 hours



- **Add 'Orders' button**
- **Add 'Calendars' button**
- **Add 'Inventory' button**
- **Add 'Finances' button**
- **Add 'Messages' button**

Technology Research Report: Testing

Testing is an integral part the development process that ensures the quality, reliability, and functionality of the web application. Without proper testing, it is impossible to guarantee the stability and dependability of the application, leading to issues such as crashes, security breaches and poor user experience. There are several types of testing that can be performed throughout the development cycle to find and resolve issues throughout the process. Each type of testing concentrates on different aspects of the application and by performing a combination of different testing types can guarantee that the web app has been thoroughly tested and meets all the requirements.

Types of Tests

Unit Testing: this test helps make certain that individual functions and blocks of code are working as intended, making it easier to identify and fix bugs. It also provides quick feedback during the development process, which can help prevent issues from escalating into bigger problems.

Integration Testing: tests how the individual components of the app work together as a whole. This is crucial as it verifies that different components of the web app are working together correctly. This type of testing can help identify issues related to data flow, APIs, and other areas where the interaction between components may not be working as intended. Integration testing ensures that the web app interacts seamlessly, which is essential for its functionality and performance. For 'Orderly' this could include the business home page, the customer home page and the messaging services.

Security Testing: involves testing the web app for vulnerabilities such as SQL injection and other security attacks. It is extremely important to confirm our web app is secure and protected against potential security breaches. Without doing so we run the risk of keeping confidential business information that is susceptible to being leaked.

Usability Testing: A test that focuses on evaluating the user interface and user experience. The goal of this test is to make sure that the web app is easy to use, intuitive and meets the goals of the target audience. As 'Orderly' is designed for both businesses and customers, we would need to conduct several different user experiences to make sure the web app is well constructed on all fronts.

End-to-end Testing: a vital test that evaluates the web app as a whole and ensures that it meets the requirements and expectations of the clients. This test simulates user interactions and verifies the entire system is working as intended. It can also help identify issues that may arise from integration of different components that may not be apparent in isolation.

In summary, the testing process for a full stack web application involves various types of testing that are designed to ensure it has been completely tested and the objectives have all been met. Testing is broken down into several types, each focusing on a different aspect of the application to help detect and address issues at separate stages of the development process. Through the testing process, we can optimise the performance, improve user experience, and the conditions have been certified. By implementing a comprehensive testing process, we can make sure that the web app is of high quality and will serve our clients an excellent experience.