Interim Presentation

Agile Development (PM_233-CU-302CEM)

Group 4

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3. Wan Siu Keung (Terence)
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Agenda

1. Business idea and scope

2. Business planning & team structure

3. WBS & Business Timeline

4. Technical design diagram

   a. Activity Diagram

   b. Sequence Diagram

   c. Record layout of Data Exchange between two business parties

5. MVP demo - Figma

Business idea and scope

We decided to create an **e-commerce platform which can simplify the online shopping process**.

- *User-friendly front-end portal - Allowing customers to access accounts, view balance, and explore a wide array of items easily.*

- *Dynamic inventory management system - enabling seamless addition, deletion, and modification of items*

These features ensure **an up-to-date and engaging shopping experience**.

The scope extends to a **comprehensive supply system.**

- Item selection to order confirmation, including **real-time notifications** for ordered products.

- Target to automate database updates for inventory accuracy, **enhancing operational efficiency.**

This project aimed at transforming the digital marketplace, our platform **prioritizes convenience and reliability**, catering to both consumers and sellers with an emphasis on **improving the overall user interaction and transactional processes.**

Business planning & team structure

Project Develop Method: Hybrid approach

- Waterfall: Project planning, product design

- Agile: Development, unit test and UAT

Project Duration: Feb 2024 – Apr 2024

Co-Project Managers

- Oscar: Focus on business planning, external communications, stakeholder management, and risk management.

- Charlie: Concentrate on internal team dynamics, sprint planning, and tracking progress against milestones.
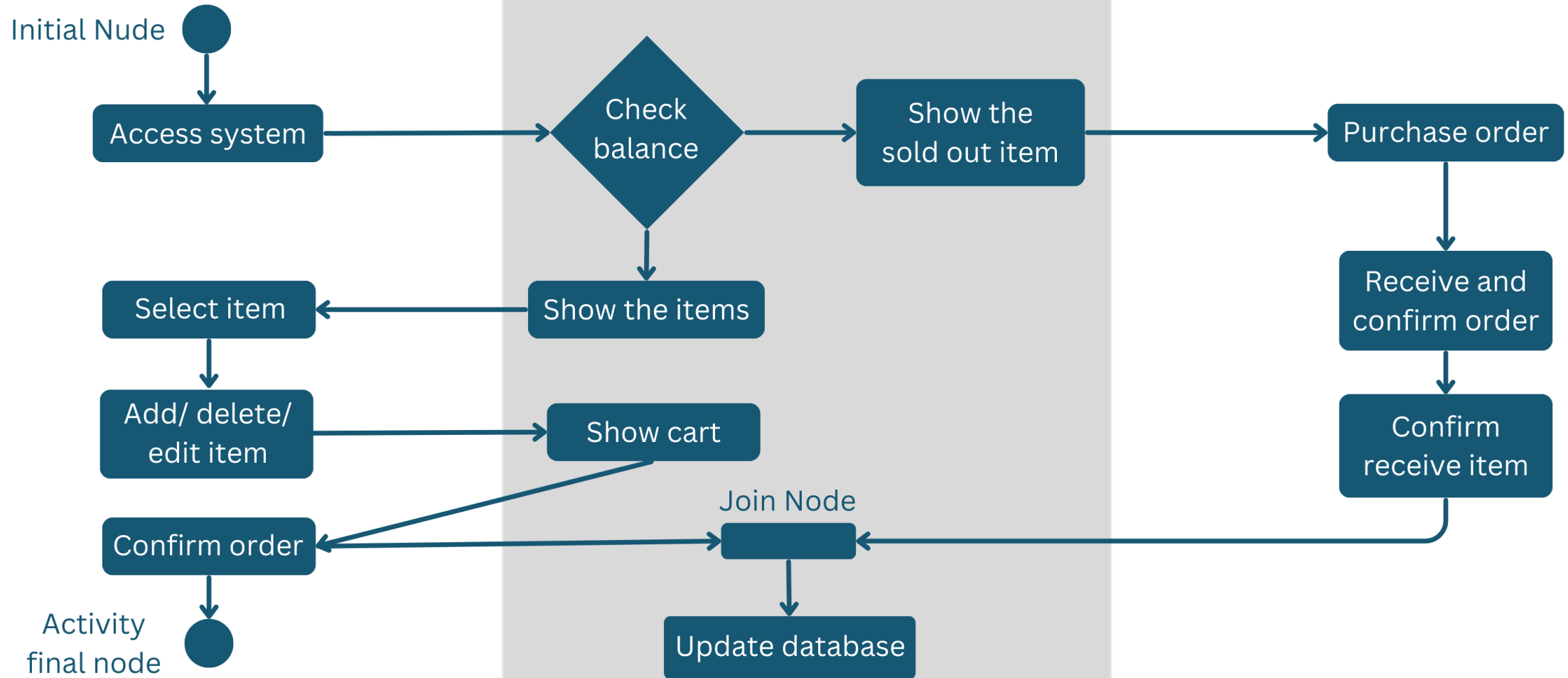
Developers

- Jason: Focus on front-end development, ensuring the platform's user interface is intuitive, responsive, and aesthetically pleasing.

- Terrence: Specialize in back-end development, including server-side logic, database management, and integration with external services or APIs.
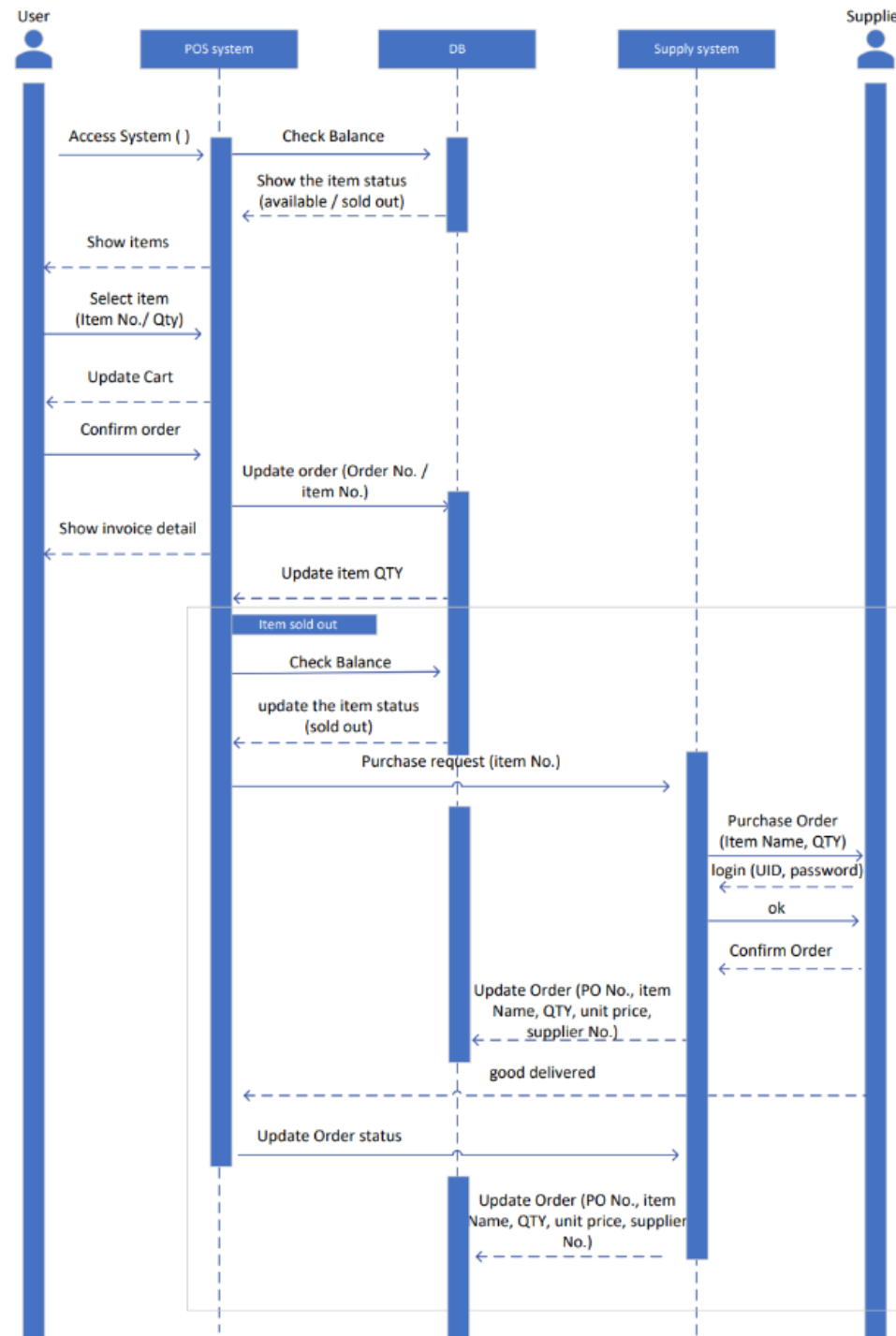
Task	February				March				April				May			
	W1	W2	W3	W4	W1	W2	W3	W4	W1	W2	W3	W4	W1	W2	W3	W4
Define project scope	■															
Define project objectives		■														
Define team structure		■														
Define MVP features			■													
Architectural design				■												
User Interface design					◆											
Front-end development						S1	S2	S3								
Back-end development						S1	S2	S3								
System integration										S4						
Unit testing							S1	S2	S3	S4						
User Acceptance Testing								S1	S2	S3	S4					
Production launch													S4			

Supply Order Table

#	Field Name	Type	Length	Decimal	Display Name	Description
1	OrderId	Char	20	0	Order ID	The Order ID.
2	ItemName	Char	50	0	Item	The Item Name.
3	Quantity	Num	10	0	Qty	The amount of order item.
4	OrderPrice	Num	10	2	Price	The price of item.
5	OrderDateTime	Date	18	0	Order Time	The order date time.
6	Order Status	Char	1	0	Order Status	The order status, such as "open", "cancel", "transporting","complete".
7	PaymentMethod	Char	10	0	Payment	The payment method like "cash", "online payment", "credit card".
8	PaymentStatus	Char	4	0	Payment Status	The payment status like "paid",
9	SupplierName	Char	50	0	Supplier	The name of Supplier.
10	DeliveryAddress	Char	200	0	Address	The goods will deliver to that address.

System Development Software

Microsoft Azure Cloud
- Deploying the System to Azure Cloud.
- Reliability, High Availability Scalability, flexibility, security, cost savings.
- Wide Range of Services and Tools: eg. Oracle db, python3.
- Provided Disaster Recovery.
- Support CI/CD.

We need a platform which support CI/CD since we use agile method in development.

Database: Oracle Database
- Storing, maintaining and accessing the data of POS and Supply System.
- Strong Security, Scalability, Robust Performance.
- Suitable for OLTP (Online Transactional Processing)

We need a database which is scalable since world-wide market will have high volume usage.

System language & framework: Python Django
- Developing the backend and front end by Python Django Framework.
- Easy Development and Maintain: adopt MVT design pattern.
- Highly Secure: built-in authentication and protection function.
- Rapid Development.

We choose python since it is easy to do development and maintenance.

Figma Demo

Q&A