



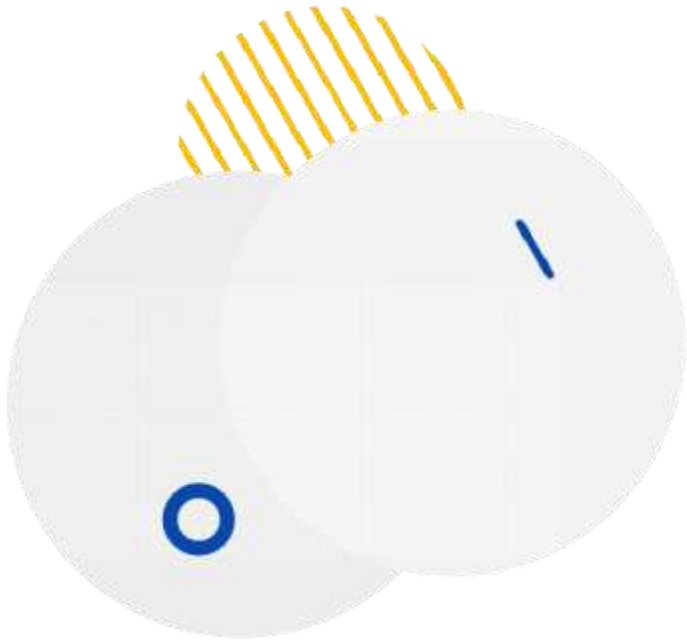
DSD Mid-term Presentation

Group: Dream-share-discover (Web Application)

Presenter: Paul







What is the Project About?

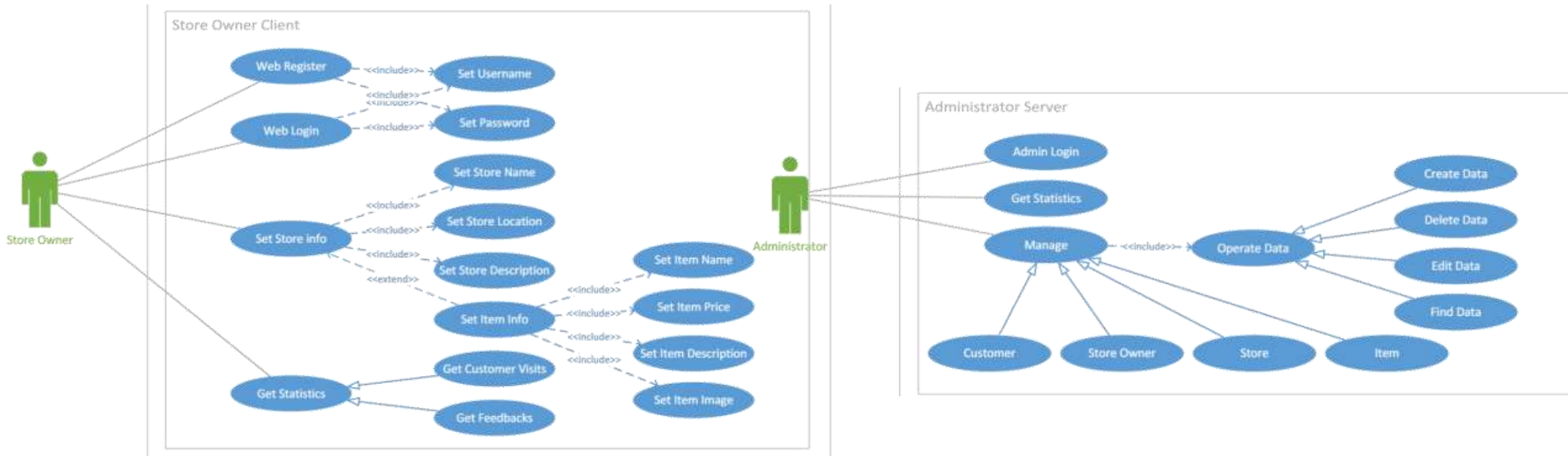
Requirement Analysis & System Architect

PART ONE



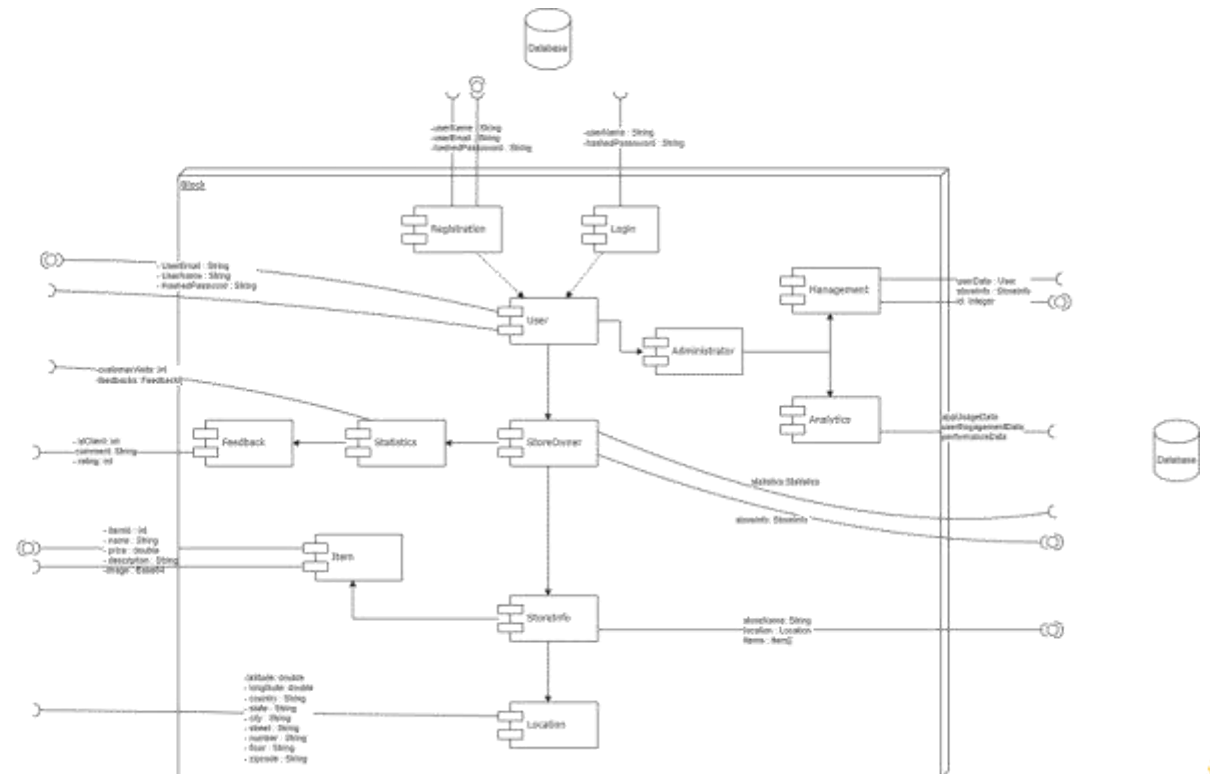
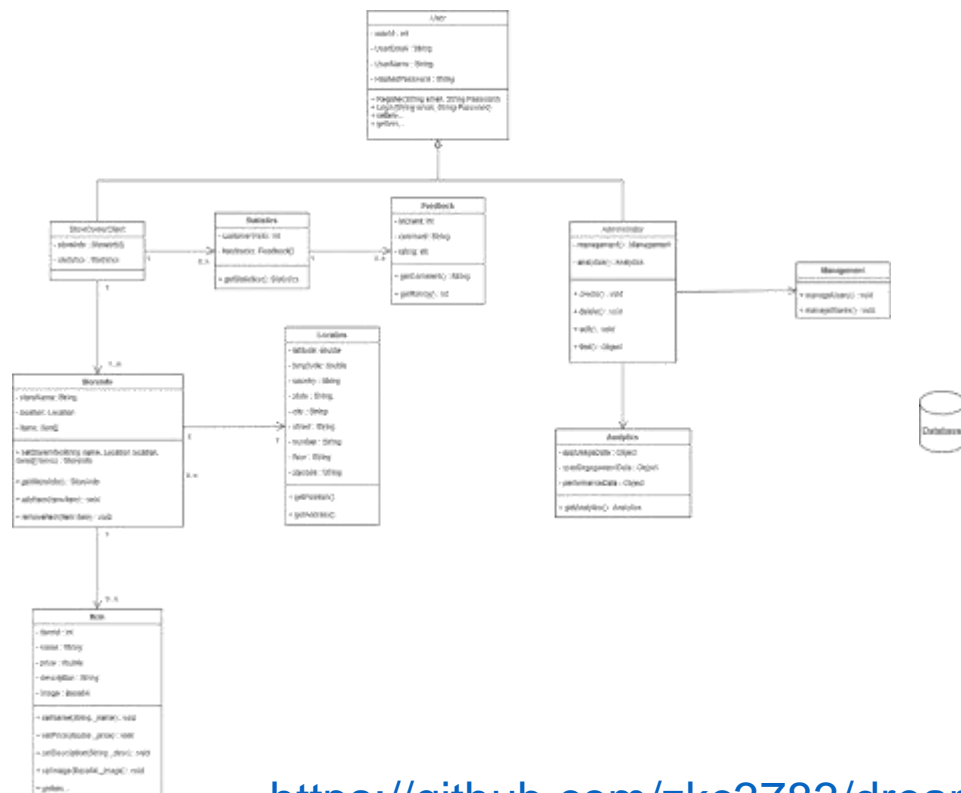
Requirement Analysis

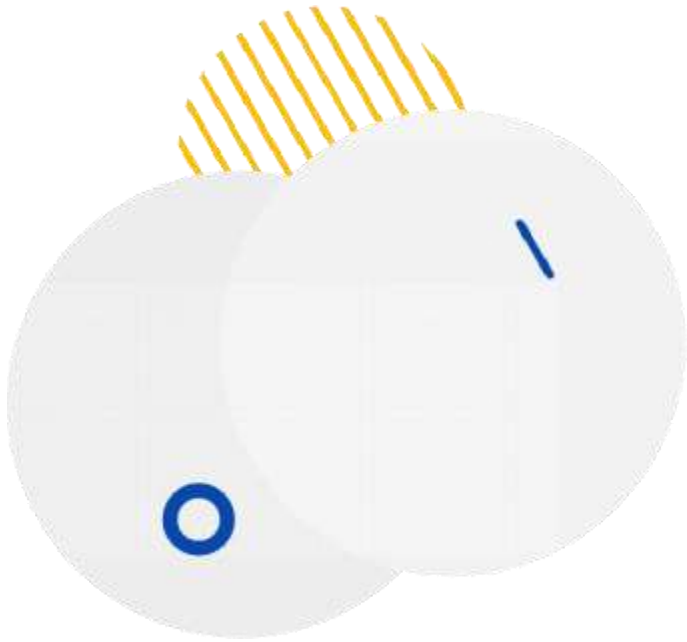
- Software Requirements Specification Iteration 1, Version 1.3
- **Use Case Diagram Iteration 1, Version 1.3**



System Architect

- Class Diagram Iteration 1, Version 1.2
- Component Diagram Iteration 1, Version 1.2
- **Interface Specification Iteration 1, Version 6.5 (Web-Database)**





How is the Project Implemented?

Implementation & Testing

PART TWO



Implementation

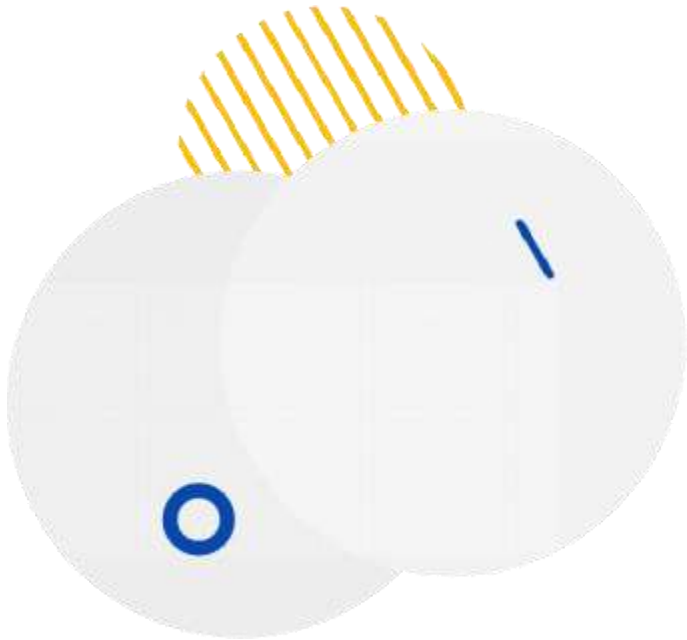
- The project is implemented using **Vue.js**, a progressive JavaScript framework for building user interfaces.
- We integrated **Element UI**, a Vue-based component library, to construct a responsive and visually appealing interface.
- The server-side logic is built on **Node.js**, a JavaScript runtime built on Chrome's V8 JavaScript engine.
- We utilized **git** as version control, allowing multiple developers to work collaboratively and manage changes to the codebase effectively.

Testing

- We implemented a backend server using a **JavaScript** framework to ensure that each function of the system behaves as expected independently.
- We perform thorough **API** testing within our JavaScript environment to ensure that all endpoints correctly process requests and yield the expected responses.

```
Interface27
Receiving request: { UserName: 'LEIJUN' }
Sending response: {
  StoreName: 'XIAOMI',
  StoreLocation: '30.4981807,114.5086413',
  AvgRate: 9,
  Feedback: [
    { Comment: 'Great service and fast delivery!', Rating: 9 },
    {
      Comment: 'Product quality has improved significantly.',
      Rating: 9
    }
  ]
}
```

```
Interface30
Receiving request: {
  UserName: 'LEIJUN',
  ItemId: 30,
  ItemName: 'XIAOMI SU7',
  ItemPrice: 199999,
  ItemDescription: 'YAORYAO LINGXIAN!'
}
Sending response: {}
```

What does the Project Look Like?

Demonstration

PART THREE



Testing

- We presented the functional test result with a test report.

Add Store

ID: 101

Username: CHEN

Store Name: OPPO

Password: ****

Location: 75,150

Cancel

Confirm

Store Owners

Add

ID	Username	Store Name	Location	Avg Rate	Action
10	LEIJUN	XIAOMI	100,200	9	Edit Items Edit Delete
101	CHEN	OPPO	75,150	/	Edit Items Edit Delete
110	MAHUATENG	TENGXUN	50,100	8	Edit Items Edit Delete

Total 3

5/page

< 1 >

Go to 1

```
Interface24
Receiving request: {
  UserId: '101',
  UserName: 'CHEN',
  UserPassword: 'CHEN',
  StoreName: 'OPPO',
  StoreLocation: '75,150'
}
```

Additional Testing

- We tried copying **1000 stores**, testing the stability of the system and assessing the robustness of our application's functionality under high data volume conditions.

Store Owners

Add

ID	Username	Store Name	Location	Avg Rate	Action
10	LEIJUN	XIAOMI	30.4981807,114.5086413	9	Edit Items Edit Delete
11	LEIJUN1	XIAOMI 1	30.4982807,114.5087413	9	Edit Items Edit Delete
12	LEIJUN2	XIAOMI 2	30.4983807,114.5088413	9	Edit Items Edit Delete
13	LEIJUN3	XIAOMI 3	30.498480699999998,114.50894129999999	9	Edit Items Edit Delete
14	LEIJUN4	XIAOMI 4	30.498580699999998,114.50904129999999	9	Edit Items Edit Delete

Total 10025/page<123456...201>Go to1

Filter and Search

Input Search:LEIJUN20

Store Owners

ID	Username	Store Name
30	LEIJUN20	XIAOMI 20
130	LEIJUN120	XIAOMI 120
210	LEIJUN200	XIAOMI 200
211	LEIJUN201	XIAOMI 201
212	LEIJUN202	XIAOMI 202

Additional Testing

- we attempted to add a new customer and subsequently checked its presence and accuracy **on another device**, ensuring data consistency and verify the system's ability to synchronize across multiple devices

Customers

Add

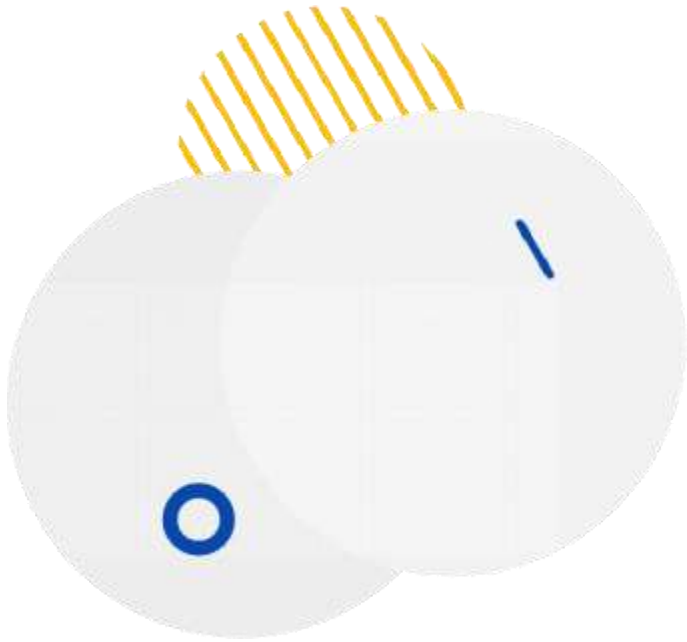
ID	Username	Birthday	Interests	Email	Action
1	YongqiZhu	2003-03-05	tabletennis	YongqiZhu@gmail.com	Edit Delete
2	Miao	2003-04-21	Japanese	Miaochen@qq.com	Edit Delete
3	xyy	2004-01-08	philosophy	huanchen@qq.com	Edit Delete
4	Jason	2003-01-10	F1	Jason@qq.com	Edit Delete
5	test2	2024-04-29	code		Edit Delete

Total 5

10/page

< 1 >

Go to 1



What can be done in the Future?

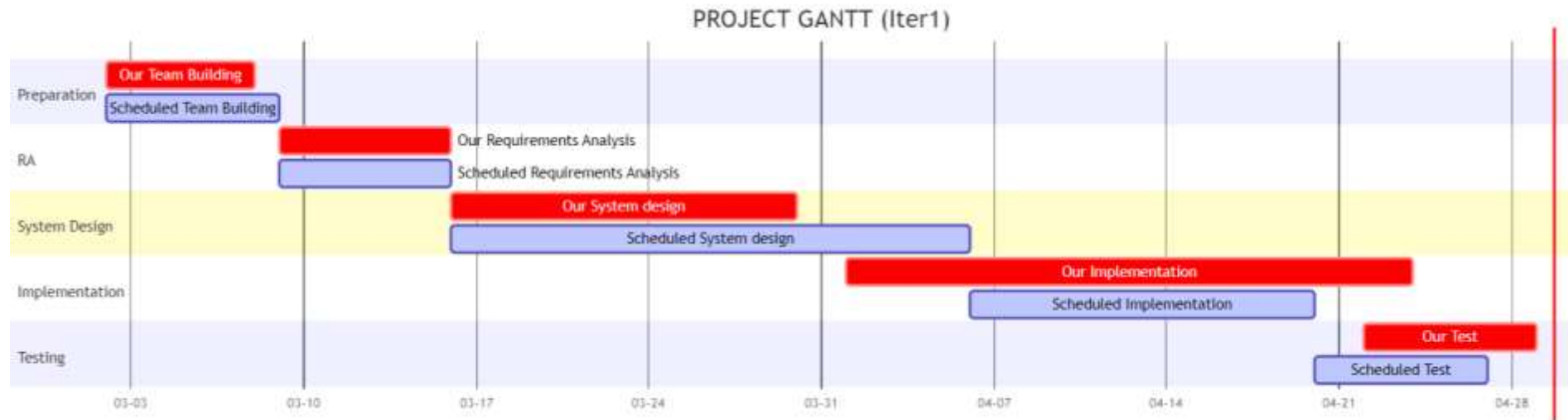
Review & Conclusion

PART FOUR



Project Gantt

- In the **Implementation** and **Testing** stage, we are slightly behind schedule, which indicates that we need to start earlier in future projects to accommodate unexpected delays and ensure timely completion.



Reflection

- In our **requirement**, it was noted that the Admin role was granted excessive privileges, necessitating a reevaluation to ensure privacy and data consistency are adequately maintained.
- During the **System Architecture** stage, we submitted an Interface Specification file, which underwent several revisions in subsequent stages as requirements evolved.
- In the **Integration** stage, we did not synchronize the API specifications early enough, which delayed the database group's ability to implement them effectively.





Thanks For Listening!

Please feel free to ask questions!