ISYS3888
Web Platform for Client-Supplier Business Management - Supplier Part
Project Plan
Produced by: Group 3 DayDream

Name	SID
Xiaohan Li	470011746
Trung Kien Hoang	470020243
Yinan Chen	470041259
Tiansheng Liu	470342488
Kewen Su	470503539
Fengjun Li	470342112
Haozhe Zhang	460335162

Content

Part1. Project Background

The title of our project is “Web Platform for Client-Supplier Business Management”. As a consulting company, our organisation, through tactical and strategic approaches, is aiming to empower small to medium size. We pursue to understand the desires of customers and simplify the process while reducing the maximum rate of potential risks. All actions are conducted under a planned strategy and technology adoption roadmap, which involves a huge array of unique advice, support and solutions to the clients. There are three stages in our process, including research and analysis, roadmap planning; and execute and monitor. Client’s business and their market environment are required to be well-analysed and evaluated before finding out a useful framework and method for clients' companies. Beside executing and monitoring the companies during the process, there is also a specialist who guides the business to adopt and apply the solution after finishing the process. (Our service). The aim of the project is building a web application for connecting tradies and customers which is typically consumer to business relationship. The main point of digital tradie is to build a trusted relationship among suppliers and customers through this customer experience management platform. Therefore, the gap between the relationship not only is bridged but also acts as a confidence-booster among customers and a reputation-strengthening factor for the client’s suppliers. According to Gerke, successful tradies need to be the leader of not only their trade, but also quoting, marketing, scheduling and banking. The digital tradie now could take all of those advantages. Moreover, the advanced online platform can also aid to save money, time and streamline processing as well. There is more room for business owners to manage their business, enhance their credibility and professionalism. Customers can also sort out the tradies having high ratings and reputable recommendations. Due to the heavy workloads, the client asks for 2 teams to finish the project. One team is in charge of the Customer side and the other team takes responsibility for the Supplier side. However, each group uses different knowledge in terms of the programming language. In this way, it is difficult to decide which front-end and back-end technology should be used and the most productive template platforms for Web-application.

Part2. Project Goal and Objective

Goals:

In the“Web Platform for Client-Supplier Business Management” project,our ultimate goal is to meet the needs of customers for this project and provide customers with a web application that can be used in practice. Since we are the supplier side of the web, we hope that all suppliers on the web can fully guarantee their own information security Post jobs/part-time jobs under the premise of, and can see all the bids given by clients and their past evaluations at a glance. Help suppliers make the most suitable choice.

Objectives:

We have corresponding objectives for different stages.

STAGE 1: Make a preliminary plan after understanding the basic requirements of the customer.

STAGE 2: (1) Team members are assigned and completed tasks according to the plan.

(2) Communicate project details with another group to determine the fundamentals of the website.

(3) Implement low-fidelity prototypes.

STAGE 3: (1) Assign tasks according to the project proposal.
(2) Gradually realize high-fidelity prototypes based on low-fidelity prototypes.
(3) Develop a preliminary plan for the back-end of the website.

STAGE 4: Complete the basic design of the front and back ends of the website.

STAGE 5: (1) Basically complete the design of the entire web page as required.
(2) Pilot testing for supplier aspects to ensure that all functions can be used normally.
(3) Prepare for the final report.

STAGE 6: (1) Combine the project of supplier aspect and customer aspect.
(2) Pilot testing to ensure the interaction of customer and supplier and their database.
(3) Finish the final report and prepare the final presentation.

STAGE 7: (1) Final presentation accomplished.
(2) Continuously improve our website by collecting feedback and increasing user satisfaction.
(3) Solicit customer opinions on our finished products.

Part3. Project Scope and Expectation

Project Scope:

The project scope describes the details of the tasks that are performed to satisfy the project requirements. In other words, the main function of the project scope is to divide the deliverables of the project into smaller and more manageable components for the development group.

In the "Web Platform for Client-Supplier Business Management" project, the project scope can be split into the following five sections: project justification and needs, project characteristics and requirements, in scope and out of scope details and project success criteria.

Project justification and needs

From the human resources market to the online recruitment platform, full-time jobs have always dominated the market. But in order to meet the normal demands of people's daily life, part-time jobs are necessary. Therefore, our client Basem tries to provide a web platform for the customers and suppliers to make the transaction and communicate with each other. Better efficiency and ease of use of this web application will improve the process of experience and save both customers' and suppliers' time. This will also improve the traditional recruitment methods.

Project characteristics and requirements

The project characteristics and requirements for suppliers:

Characteristics: 1.The adaptive UI designing
2.Friendly UI designing for chatting system and forum system
3.The security of suppliers' details

Non-functional requirement:

1. The web application should get higher usability for suppliers to know what they should do next steps after registration and communicate with customers.
2. The web application should get higher compatibility optimized for mobile devices.

3. The backend of the web application needs to optimize the amount of data transferred by the database to ensure that the response time is not too long and suppliers will not waste too much when they get a filter search.
4. The web application database requires a specific amount of capacity to ensure that the suppliers' historical records can be stored for them anytime to view and help them to fill the information.
5. The web application database needs to be periodic to ensure that the pressure on the database is not excessive.
6. The security of the website is the most important and suppliers' information will not be leaked.

Functional requirement:

1. Registration/sign up page for new suppliers to create business profiles/accounts. And after successful sign up, suppliers can see the list of all recent jobs.
2. The secure and fast login page for the suppliers who have already signed up. And it also needs the function of "Forget Password" which is based on web standards/practices.
3. There will be a home page for suppliers editing profile details like business name, email and password when they get the successful login.
4. Suppliers can check the status of their jobs or quotes through the jobs/quotes pages.
5. Suppliers can bid on a job posted by a customer after successful login.
6. Suppliers can respond to a quote request with all the necessary details.
7. Enable suppliers to search jobs and each other based on multiple fields.

In scope

1. In the Home page, it includes a simple and integrated login page or login dialog. The basic functions need to have such as log in, sign up and forget the password.
2. In the user home page, suppliers have a friendly communication system to contact customers to talk about job details. And it will also have a reminder function for suppliers.
3. In the user home page, suppliers can edit their details and check the.history records which is about the deliverables between customers and suppliers.
4. Ensure the page search function can work correctly and get the exact customers' data from the database to show the suppliers.
5. The database needs to clean dirty data regularly to ensure that the data pressure and response time will not be too long.
6. The web page includes the upload and delete functions to ensure suppliers can respond to a quote request with all the necessary details.
7. Adjust the CSS code to make the page layout adaptive rather than absolute, to ensure that users can use it correctly on the mobile terminal.
8. Quote the algorithm of password security to improve the security of suppliers' accounts, especially for their details.

Out of scope

1. Design a backstage management system page for this web application, and it will be convenient for subsequent program maintenance and extensions.
2. The web application provides work-related tool rental services web pages to facilitate the interaction between customers and suppliers.

3. The web application provides related insurance services web pages for both customers and suppliers to ensure the completion of the work and the reputation of the platform.

Project Success Criteria

Realize the basic functions required from the client in the first development phase and the whole web application can work correctly. The logic between each function is clear and the web links are concise and easy for users to discover independently without any help. The search function can correctly match with what suppliers need and the response time will not be too long. Meanwhile the UI design is friendly for users to use.

Project Expectation

For the whole project, the customer's expectations mainly come from two aspects：

First one is more important. It is about the project itself. The client expects to create a part-time or short time job web application in the current big data environment, it provides the transaction and communication platform for both customers and suppliers. Compared with traditional recruitment, online platforms are more convenient and faster. Therefore, the web application has the huge market advantage in the future, and it will also save much more time for users to do part-time jobs.

Second one is about the development group. The client also expects every member in the development groups can give full play to their strengths and transform the theoretical knowledge learned in the university into practical experience. Meanwhile each team member will learn how to communicate and collaborate with others in the project.

Part4. Project Deliverables

Project plan

In the infancy stage of the project, a project plan should be drawn up to set out the background, goals, scope, deliverables of the project based upon currently gathered information. The deliverable aims to give the customer a rough idea of current project planning and to have a preliminary understanding of the implementation cycle and the expected output of the project.

Low-fidelity prototype

The low-fidelity prototype deliverable aims to present the general UI design of the web application to the client and ensure that the follow-up development is in the right direction.

Project proposal

The project proposal elaborates on every single aspect of the project, which is written up based upon feedback from the project plan, low-fidelity prototype and interviews with the client. The purpose of this deliverable is to outline the value proposition of the project and to set out what value could the project bring to the client.

High-fidelity prototype

The High-fidelity prototype provides an interactive interface with possibly highest similarity to what will be delivered as the final product. It provides an intuitive approach for both client and testers to navigate through interfaces and check whether the design has met the expectations of the client.

Web Platform for Client-Supplier Business Management

The key deliverable of the project is a web application with the intuitive UI design and reliable back-end database design underlying to perform business management between client and supplier.

Part5. Timeline and Gantt Chart

Here is the content of our timeline and followed by our gantt chart. Since we use Agile as our strategy, the timeline may have slight changes after every week's client meeting or due to the risk management such as staff turnover. There would be some explanations for the Gannt chart.
- The client meeting would be set in every Tuesday which is shown in the chart if nothing unexpected.
- The subtasks would be defined with lighter color and would not be presented if the start time and the end time is the same as the parent task.
- The weekend is not defined but if the task on Friday cannot be completed in the duration of prediction, the team would use them to work.

Phase1: Project management strategy & design phase (Week1 early to Week3 early)

1.1 Project allocation
1.2 Project strategy design
1.3 Organise a meeting with client
    1.3.1 Product confirmation
    1.3.2 Basic requirements gathering
1.4 Phase design
1.5 Requirement list design
1.6 Project plan preparation
1.7 Requirements analyse
1.8 Logic flow chart design

Phase2: Project plan & low-fidelity prototype (Week3 late to Week4 early)

2.1 Project plan implementation
    2.1.1 Task allocation and complete
    2.1.2 Task integration and improvement
        2.1.2.1 Task1(Project background) accomplish
        2.1.2.2 Task2(Project goals and objectives) accomplish
        2.1.2.3 Task3(Project scope and expectations) accomplish
        2.1.2.4 Task4(Project deliverables) accomplish
        2.1.2.5 Task5(Project timeline) accomplish
2.2 Meeting with another group (which designs customer aspect)
    2.2.1 Collaborative task confirmation
    2.2.2 Language and platform confirmation for front-end and back-end design
    2.2.3 Decide goal for the whole project (both customer and supplier aspect)
    2.2.4 Decide the website fundamentals(colors, icons, etc.) which should be consistent for both customer and supplier aspects.
2.3 Low-fidelity prototype implementation
    2.3.1 Background color confirmation
    2.3.2 Design the size and functionality of each icon
    2.3.3 Design the website name
    2.3.4 Front(Menu bar) design
    2.3.5 Footer design
    2.3.6 Basic functionality design
    2.3.7 Organise and improve prototype
2.4 Weekly meeting with client
    2.4.1 Specific requirements confirmation

2.4.2 Weekly goal confirmation

Phase3: Project Proposal & high-fidelity prototype (Week 4 late to Week 5 late)

3.1 Weekly meeting with client
- 3.1.1 Low-fidelity prototype submission
- 3.1.2 Weekly goal confirmation
- 3.1.3 Determine website style and framework
- 3.1.4 Determine project proposal direction

3.2 Project proposal implementation
- 3.2.1Task allocation and complete
- 3.2.2 Task integration and improvement
  - 3.2.2.1 Task1 accomplish
  - 3.2.2.2 Task2 accomplish
  - 3.2.2.3 Task3 accomplish
  - 3.2.2.4 Task4 accomplish
  - 3.2.2.5 Task5 accomplish

3.3 High-fidelity prototype implementation
- 3.3.1 Improve low-fidelity prototype as a basis
- 3.3.2 UX/UI design accomplish
- 3.3.3 Website application style design
- 3.3.4 Website function design
- 3.3.5 Website can jump smoothly from homepages to other pages and vice versa

3.4 Back-end preliminary plan
- 3.4.1 Determine the location of database
- 3.4.2 Determine the data types in database
- 3.4.3 Determine the authority in database
- 3.4.4 Determine how to connect the database to the website
- 3.4.5 List a list of functionalities and determine the priority

Phase4: Project implementation milestone 1 Basis (Week 6 - Week 7)

4.1 The front-end complete basic design
- 4.1.1 The website front-end part is implemented with HTML and CSS.
- 4.1.2 The website front-end part is implemented with JavaScript.
- 4.1.3 The link of website application meets the requirement of project proposal
- 4.1.4 UI design is user-friendly
- 4.1.5 The design of homepage can meet the requirements for both customer and supplier aspect

4.2 The back-end complete basic design
- 4.2.1 Database construction
- 4.2.2 Database can interact with our front-end website
- 4.2.3 Database can save and load data from front-end website

4.3 Weekly meeting with client
- 4.3.1 High-fidelity prototype submission
- 4.3.2 Weekly goal confirmation
- 4.3.3 The client approves our front-end design

Phase5: Project implementation milestone 2 Accomplish (Week 8 - Week 10)

5.1 The product has roughly complete
- 5.1.1 The product satisfies *supplier login* requirement

5.1.2 The product satisfies *supplier update profile* requirement
5.1.3 The product satisfies *supplier check quote/jobs status* requirement
5.1.4 The product satisfies *supplier bid jobs* requirement
5.1.5 The product satisfies *supplier response to a quote request* requirement
5.1.6 The product satisfies *supplier search request* requirement

5.2 Pilot testing for supplier aspect
5.2.1 The website can run properly during the test
5.2.2 The data can be correctly sent to database and be saved
5.2.3 The data can be outputted correctly
5.2.4 The functionalities are all usable and correct
5.2.5 Test the speed of research function.

5.3 Weekly meeting with client
5.3.1 Report product process
5.3.2 Weekly goal confirmation
5.3.3 The client approves our design and implementation

5.4 Final report preparation
5.4.1 Task allocation
5.4.2 Situation analysis

Phase6: Project implementation milestone 3 Combination & final report (Week 10 - Week 11)

6.1 Combine the project of supplier aspect and customer aspect.
6.1.1 Combine the supplier and customer part to a complete web platform application
6.1.2 Combine two databases, Looking for an integration plan for two database data

6.2 Pilot testing to ensure the interaction of customer and supplier and their database
6.2.1 Test whether there is a problem with the data exchange between the two sections
6.2.2 Test whether there will be a problem in the front-end web page of the interaction between two sections.

6.3 Weekly meeting with client
6.3.1 Report product process
6.3.2 The client approves our final design and implementation

6.4 Final report accomplish
6.4.1 Task integration and improvement
6.4.1.1 Task1 accomplish
6.4.1.2 Task2 accomplish
6.4.1.3 Task3 accomplish
6.4.1.4 Task4 accomplish
6.4.1.5 Task5 accomplish

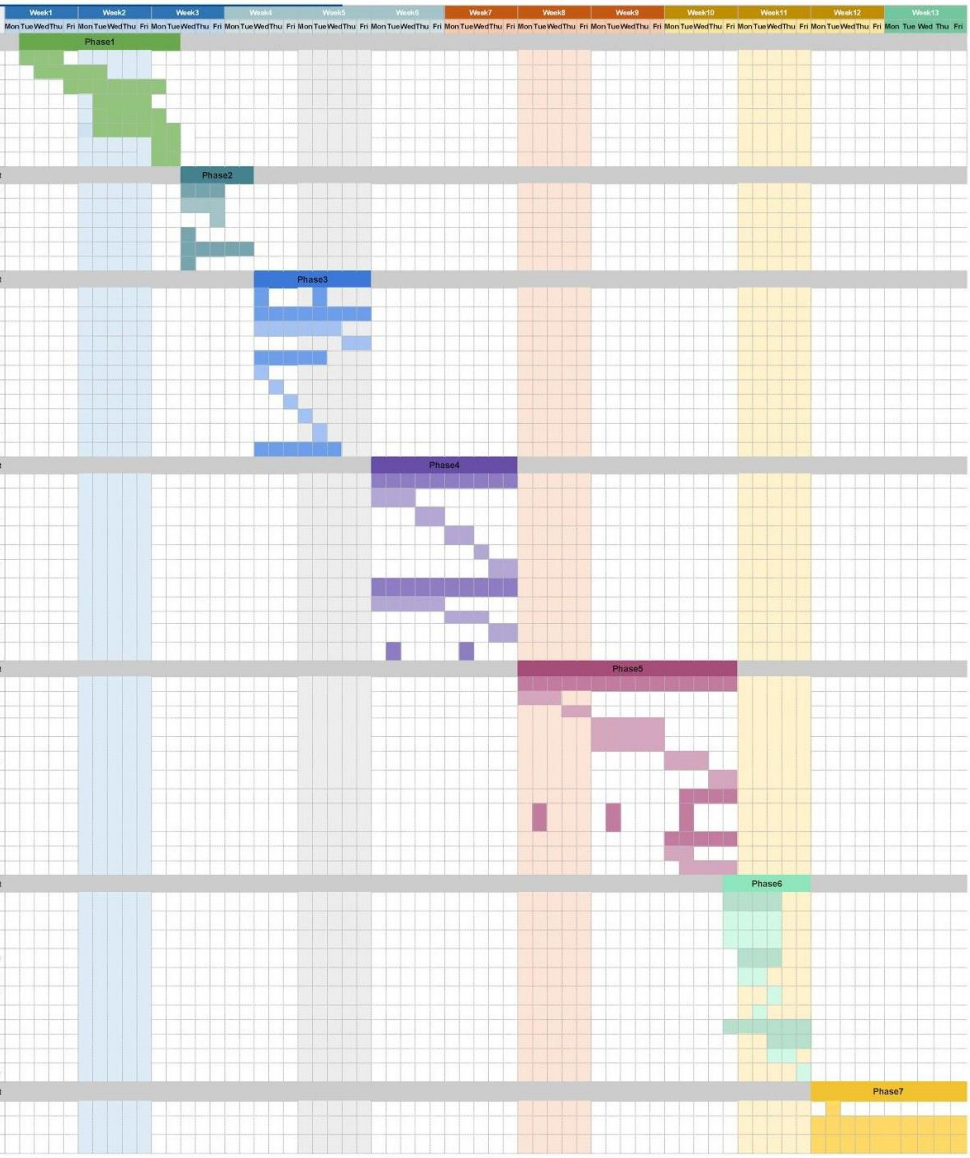
6.5 Final presentation preparation
6.5.1 Summarise project experience
6.5.2 Report the progress of project and demonstrate the function of product

Phase7: Product improvement & final presentation - Week 12 - Week 13

7.1 Final presentation accomplish
7.2 Continuously improve the shortcomings of our products through feedback
7.3 Confirm with the customer whether there are functions that need to be changed or improved

GanttChart (Suppiler part)

Task	Activity	Start time	End time	Predecessor	Dependency Type
1	**Project management strategy & design phase**	**Week1 Tue**	**Week3 Tue**	***N/A***	***N/A***
1.1	Project allocation	Week1 Tue	Week1 Thu	N/A	N/A
1.2	Project strategy design	Week1 Wed	Week2 Tue	1.1	Finish to start
1.3	Organise a meeting with client	Week1 Fri	Week3 Tue	1.1	Finish to start
1.4	Phase design	Week2 Tue	Week2 Fri	1.2	Finish to start
1.5	Requirement list design	Week2 Tue	Week3 Mon	1.1	Finish to start
1.6	Project Plan preparation	Week2 Tue	Week3 Tue	1.2	Start to start
1.7	Requirements analyse	Week3 Mon	Week3 Tue	1.3	Finish to start
1.8	Logic chart flow design	Week3 Mon	Week3 Tue	1.3	Finish to start
2	**Project plan & low-fidelity prototype**	**Week3 Wed**	**Week4 Tue**	**1**	**Finish to start**
2.1	Project plan implementation	Week3 Wed	Week3 Fri	1.7	Finish to start
2.1.1	Task allocation and complete	Week3 Wed	Week3 Fri	1.7	Finish to start
2.1.2	Task integration and improvement	Week3 Fri	Week3 Fri	2.1.1	Finish to start
2.2	Meeting with another group	Week3 Wed	Week3 Wed	1.3	Finish to start
2.3	Low-fidelity prototype implementation	Week3 Wed	Week4 Tue	2.2	Finish to start
2.4	Weekly meeting with client	Week3 Wed	Week3 Wed	N/A	N/A
3	**Project Proposal & high-fidelity prototype**	**Week4 Wed**	**Week5 Fri**	**2**	**Finish to start**
3.1	Weekly meeting with client	Week4 Wed Week5 Tue	Week4 Wed Week5 Tue	N/A	N/A
3.2	Project proposal implementation	Week4 Wed	Week5 Thu	3.1	Finish to start
3.2.1	Task allocation and complete	Week4 Wed	Week5 Wed	3.1	Finish to start
3.2.2	Task integration and improvement	Week5 Thu	Week5 Fri	3.2.1	Finish to start
3.3	High-fidelity prototype implementation	Week4 Wed	Week5 Tue	3.1	Finish to start
3.3.1	Improve low-fidelity prototype as a basis	Week4 Wed	Week4 Wed	3.3	Start to start
3.3.2	UX/UI design accomplish	Week4 Thu	Week4 Thu	3.3.1	Finish to start
3.3.3	Website application style design	Week4 Fri	Week4 Fri	3.3.2	Finish to start
3.3.4	Website function design	Week5 Mon	Week5 Mon	3.3.3	Finish to start
3.3.5	Website can jump smoothly from homepages to other pages and vice versa	Week5 Tue	Week5 Tue	3.3.4	Finish to start
3.4	Back-end preliminary plan	Week4 Wed	Week5 Wed	3.1	Finish to start
4	**Project implementation milestone 1 Basis**	**Week8 Mon**	**Week7 Fri**	**3**	**Finish to start**
4.1	The front-end complete basic design	Week6 Mon	Week 7 Fri	3	Start to start
4.1.1	The website front-end is implemented with HTML and CSS	Week6 Mon	Week6 Wed	4.1	Start to start
4.1.2	The website front-end part is implemented with JavaScript	Week6 Thu	Week6 Fri	4.1.1	Finish to start
4.1.3	The link of website application meet the requirement of project proposal	Week7 Mon	Week7 Tue	4.1.2	Finish to start
4.1.4	UI design is user-friendly	Week7 Wed	Week7 Wed	4.1.3	Finish to start
4.1.5	The design of homepage can meet the requirements for both customer and supplier aspect	Week7 Thu	Week7 Fri	4.1.4	Finish to start
4.2	The design of homepage can meet the requirements for both customer and supplier aspect	Week6 Mon	Week 7 Fri	3	Start to start
4.2.1	Database construction	Week6 Mon	Week6 Fri	4.2	Start to start
4.2.2	Database can interact with our front-end website	Week7 Mon	Week7 Wed	4.2.1	Finish to start
4.2.3	Database can save and load data from front-end website	Week7 Thu	Week7 Fri	4.2.2	Finish to start
4.3	Weekly meeting with client	Week6 Tue Week7 Tue	Week6 Tue Week7 Tue	N/A	N/A
5	**Project implementation milestone 2 Accomplis**	**Week8 Mon**	**Week10 Fri**	**4**	**Finish to start**
5.1	The product has roughly complete	Week8 Mon	Week10 Fri	5	Start to start
5.1.1	The product satisfy supplier login requirement	Week8 Mon	Week8 Wed	5.1	Start to start
5.1.2	The product satisfy supplier update profile requirement	Week 8 Thu	Week8 Fri	5.1.1	Finish to start
5.1.3	The product satisfy supplier check quote/jobs status requirement	Week9 Mon	Week9 Fri	5.1.2	Finish to start
5.1.4	The product satisfy supplier bid jobs requirement	Week9 Mon	Week9 Fri	5.1.3	Start to start
5.1.5	The product satisfy supplier response to a quote request requirement	Week10 Mon	Week10 Wed	5.1.4	Finish to start
5.1.6	The product satisfy supplier search request requirement	Week10 Thu	Week10 Fri	5.1.5	Finish to start
5.2	Pilot testing for supplier aspect	Week10 Tue	Week10 Fri	5.1	Finish to finish
5.3	Weekly meeting with client	Week 8 Tue Week 9 Tue Week 10 Tue	Week 8 Tue Week 9 Tue Week 10 Tue	N/A	N/A
5.4	Final report preparation	Week10 Mon	Week10 Fri	5.1	Finish to finish
5.4.1	Task allocation	Week 10 Mon	Week 10 Tue	5.1	Start to start
5.4.2	Situation analysis	Week10 Tue	Week10 Fri	5.4.1	Finish to start
6	**Project implementation milestone 3 Combinatio**	**Week 10 Fri**	**Week 11 Fri**	**5**	**Finish to start**
6.1	Combine the project of supplier aspect and customer aspect	Week10 Fri	Week11 Wed	6	Start to start
6.1.1	Combine the supplier and customer part to a complete web platform application	Week10 Fri	Week11 Wed	6.1	Start to start
6.1.2	Combine two database, Looking for an integration plan for two database data	Week10 Fri	Week11 Wed	6.1	Start to start
6.2	Pilot testing to ensure the interaction of customer and supplier and their database	Week11 Mon	Week11 Wed	6.1	Finish to finish
6.2.1	Test whether there is a problem with the data exchange between the two sections	Week11 Mon	Week11 Tue	6.2	Finish to start
6.2.2	Test whether there will be a problem in the front-end web page of the interaction between two sections	Week11 Wed	Week11 Wed	6.2.1	Finish to start
6.3	Weekly meeting with client	Week11 Tue	Week11 Tue	N/A	N/A
6.4	Final report accomplish	Week10 Fri	Week11 Fri	6	Start to start
6.5	Final presentation preparation	Week11 Wed	Week11 Fri	6.1	Finish to Start
6.5.1	Summarise project experience	Week11 Wed	Week11 Thu	6.5	Start to start
6.5.2	Report the progress of project and demonstrate the function of product	Week11 Fri	Week11 Fri	6.1	Finish to finish
7	**Product improvement & final presentation**	**Week 12 Mon**	**Week 13 Fri**	**6**	**Finish to start**
7.1	Final presentation accomplish	Week12 Tue	Week12 Tue	N/A	N/A
7.2	Continuously improve the shortcomings of our products through feedback	Week12 Mon	Week13 Fri	6	Start to start
7.3	Confirm with the customer whether there are functions that need to be changed or improved	Week12 Mon	Week 13 Fri	6	Start to start



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