

# Planning Document(Iteration 2)

Project Name: Gym Management of Facility, Memberships and Staff

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## Outline

**The revised or new user story is marked explicitly as red.**

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# 1. Vision Statement

## General Functionality of the Project and Success Criteria

The project aims to create software that helps more people understand fitness classes, providing an online operating platform for all fitness enthusiasts. The target users are both gym memberships and the gym staff. The app should allow memberships to log in through the membership portal, while the gym staff will be given passwords and account names to log in as administrators for management purposes.

One goal of the project is to provide memberships information for courses they can take in the gym. Once they tap into a course, the course's description, schedule, price, and general information about the coach shall be displayed. Once the course is successfully enrolled, the training schedule is automatically generated. Users can view their schedules at "My courses". They can also add, remove or transfer a course. The project allows gym staff to modify the coach and memberships. The list of gym memberships and coaches can be visited on the main page. After clicking into a membership or coach, his or her basic information, funds, or salary remaining in the account, the course that's currently taking should be presented. The gym staff can add a new membership or remove a current one. Also, the project enables gym staff to manage equipment. A list of equipment is shown on the main page. Gym staff can check the number of equipment the gym currently has, the purpose of the equipment, the current market price of this type of equipment, and the number of damaged equipment by clicking on it. Gym staff can modify the number of equipment if new equipment has arrived or the old ones are broken.

The pre-release is software on windows. The database is randomized by the design team for testing purposes. Later extensions will include a social page for membership posting their gym pictures. The app version of the software will be available on iOS, too.

The first selling point of the project is an up-to-date database. The system is utilized by memberships, the gym staff, and equipment managers at the same time. Any update from the membership can be seen by staff members immediately so that all the information in the system is fresh. Secondly, the project design greatly focuses on privacy. No one else without the password can log in as an administrator. Membership is not allowed to view any information about other memberships too. Last but not least, as the inventory system monitors the situation of the equipment, all equipment will be under the usage limit. Besides, gym staff does rounds multiple times a day to make sure the equipment is safe. So, memberships can give their full trust while using them. There will be zero problems regarding safety issues.

This system will be considered efficient and useful based on several criteria. First, after using the system for a while, we observed the number of gyms registered compared to the numbers before using the system. Then, we send users a bonus survey within the system that allows them to rate our system and ask them a few questions, about whether they get the information more quickly, and have a better experience by using this new management system. Finally, we compare the maintenance cost of the system with the cost before using this system. If the annual expenses are reduced and the number of clients has increased, the system will be considered a success.

To conclude, the project is designed for the management of the gym's equipment, memberships, and course enrollments. It mainly guarantees members' privacy and safety. The project can be considered as successful if it reduces the maintenance costs but increases the total number of memberships.

## 2. User Stories

iteration 1 user stories:

big story 1: Display course information

Display course information	
As a client, I want to view a list of courses and its description so I can find out which course is good for me	
Priority: high	Cost: 7 days

-small story1: Display course schedule

Display course schedule	
Display the date, duration, and arrangement of courses.	
Priority: high	Cost: 4 days

-small story2: Course price

Course Price	
Show the normal price and the promotion price of courses	
Priority: medium	Cost: 2 days

-small story3:Benefits of course

Benefits of courses	
Show the benefits of taking different courses.	
Priority: medium	Cost: 1 days

big story 2: Modify Membership

Management: Big Story 1: Modify Membership

As a member of the fitness, I want to be able know all the detail about my membership card online.

Priority: High

Cost: 7 days

-small story 1: Display Membership Information

Small Story ①: Display Membership Information

Display member's general information including Height, BMI, Name, Email, Time expiration and so on.

Priority: High

Cost: 2 days

-small story 2: Determine Member's Body's Index

Small story ② Determine Member's Body's Index

Analyze and update periodically member's physical indexes.

Priority: High

Cost: 3 days

-small story 3: Register new Membership

Small Story ③: Register new Membership

Making the card style and version and continuously register new membership or remove the membership.

Priority: Medium

Cost: 2 days

-small story 4: Delete current Membership

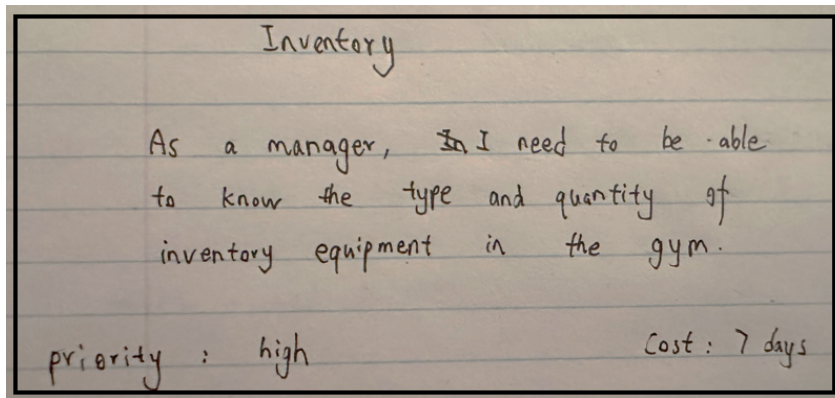
Small story 3: Delete current Membership

As an administrator, I should be able to delete current membership.

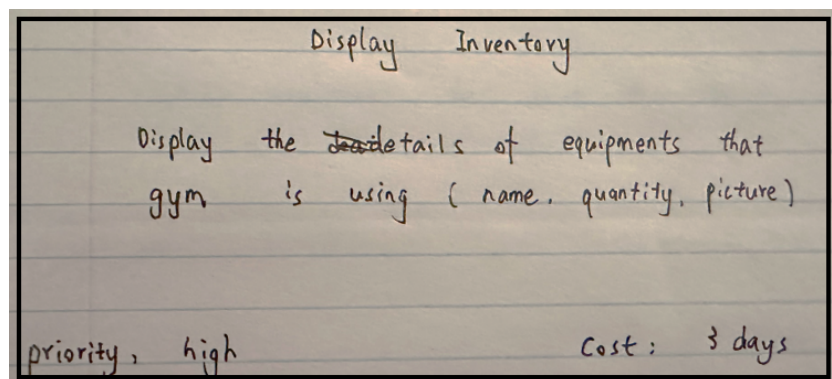
Priority: High

Cost: 5 hour

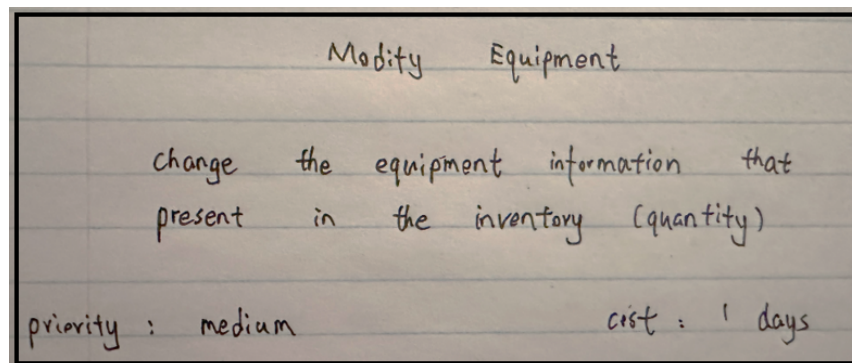
### big story 3:Inventory



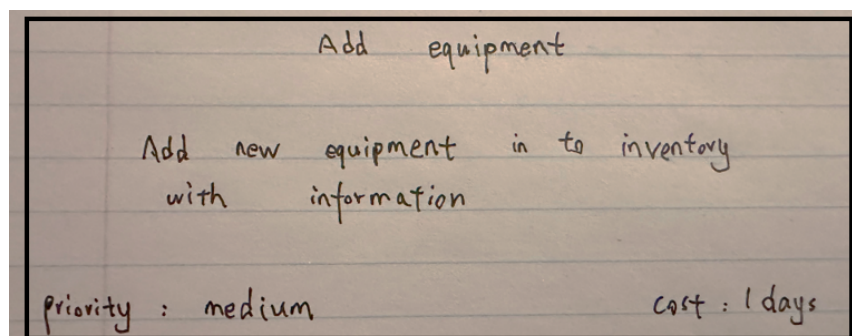
#### -small story1:Display Inventory



#### -small story2:Modify Inventory

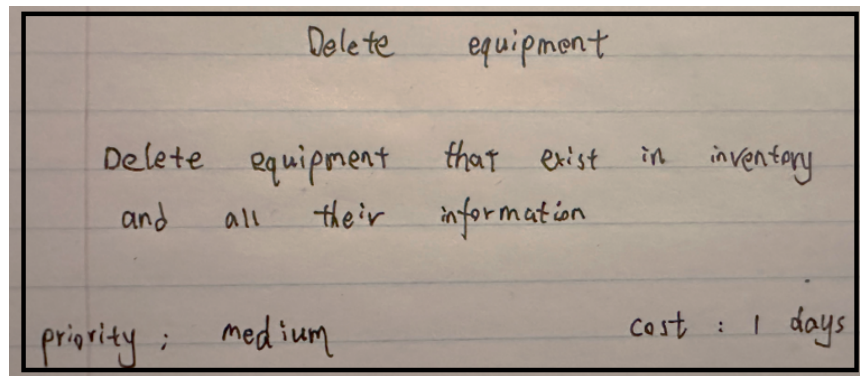


#### -small story3:Add equipment





-small story4: Delete equipment



a. iteration 2 user stories:

big story 1: Modify Coaches

Management Big Story 2: Modify Coaches

As a Coach of the fitness, I want to be able know all the detail about all my information.

Priority: High

cost: 8 days

-small story 1: Display Coaches' Information

Small Story ①: Display Coaches' Information.

Display coach personal information including name, email, height, weight, photo and so on.

Priority: High

Cost: 2 days

-small story 2: Determine Coaches' Body Index

Small Story ②: Determine Coaches' Body Index

Analyze and calculate the coaches' physical indexes currently.

Priority: Medium

Cost: 3 days

-small story 3: Display Coaches' Working availability

Small Story ③: Display Coaches' Working Availability

Display which aspect or fitness field each coach are good at. And their training ways and attitude.

Priority: Medium

Cost: 2 days

-small story 4: Register new Coaches

Small Story ④: Register new Coaches

Making the "Work Permit." Modify Coaches System including add new coaches or remove coaches from System.

Priority: Low

Cost: 1 day

big story 2: Modify coach or membership as a manager

Big Story 2: Modify Coach or Membership as a Manager

As a Coach of the fitness, I want to be able know all the detail about all my information.

Priority: High

cost: 8 days

-small story 1: Remove members or coaches

Small Story ①: Remove Members or Coaches

To modify all people's status in the fitness system.

Priority: High

Cost: 1 day

-small story 2: Display the work hours

Small story ②: Display the Work Hours

Calculate the money income and outcome in period time.

Priority: High

Cost: 3 days

-small story 3: Pay the Staffs Salary

Small Story ③ : Pay the Staffs Salary

Calculate the working time and contribution so that can pay different salary to different work place

Priority: High

Cost: 4 days

big story 3: Personal training courses

View personal training courses

As a client, I want to view a list of personal training courses, and which personal training courses can help me to improve myself better.

Priority: high

Cost: 6 days

-small story1:Information of coaches

Display information of coaches	
Display the personal information like looks, height, weight, awards, and which area he/she is good at.	
Priority: high	Cost: 4 days

-small story2:Meal plan

Generate meal plan	
Generate different meal plans for different people.	
Priority: medium	Cost: 1 days

-small story3:Exercise plan

Generate exercise plan	
Generate different exercise plan for different people.	
Priority: medium	Cost: 1 days

## big story 4: Gym staff registration

### Big Story 4: Gym Staff Registration

As a staff, i will be able to register myself as a new staff. After registered, i should be able to view my title and schedule.

Priority: High

Cost: 3 Days

#### -small story1: register new staff

##### Small Story ①: Register New Staff

Staffs are able to input their general information which can be registered in the system.

Priority: High

Cost: 1 Day

#### -small story2: view staff title

##### Small Story ②: View Staffs' Schedule

Staffs can view their schedule and their colleagues.

Priority: Medium

Cost: 1 Day

#### -small story3: view staff schedule

##### Small Story ③: View Staffs' Title

Staffs can view their own title.

Priority: Low

Cost: 1 Day

big story 5: Log in

Big stor 5: Log in

I should be able to log in as admin or user with own portal.

Priority: High

Cost: 1 day.

-small story1: Login as admin

Small story1: Login a admin

I should be able to log in as admin, after I log in, I should be able to add or remove users.

Priority: High

Cost: 5 hour

-small story2: Login as user

Small story2: Login as user

I should be able to log in as user, after I log in, I should be able to view all information of users.

Priority: High

Cost: 5 hours

b. iteration 3 user stories:

big story 1: Equipment Information

View Inventory

As a gym manager, I need to know what equipment is in the gym and what does it do.

Priority: high

Cost: 5 days

-small story1:General Equipment description

View General equipment information

As a gym manager, I need to know what each type of fitness equipment is used for.

Priority: high

Cost: 5 days

-small story2: Display equipment information

Display equipment information

Display the name of the device, the number of the device, and the photo of the device that the gym is using

Priority: high

Cost: 3 days

-small story3: Equipment price

Equipment price

Show the price at time of purchase and market price

Priority: medium

Cost: 0.5 days

big story 2:Equipment Management

-small story1:Display In-use equipment

View General In-use equipment

As a gym manager, I need to know what fitness equipment is being used

Priority: high

Cost: 3 days



-small story2:Customer Equipment Needs

### Customer Equipment Needs

As a gym manager, I need to know what kind of fitness equipment customers need nowadays

Priority: high

Cost: 3 days

-small story3:Damaged equipment

### Damaged equipment

Display of damaged or age-approved fitness equipment and quantity

Priority: low

Cost: 1 days

big story 3:Course management

Manage Courses	
As a client, I need to be able to manage which course I want to buy or cancel.	
Priority: high	Cost: 6 days

-small story1:Add course

Add Course	
Buy a specific course and add it to course schedule.	
Priority: medium	Cost: 2 days

-small story2:Delete course

Delete Course	
Cancel a specific course and remove it from course schedule.	
Priority: medium	Cost: 2 days

-small story3:Transfer course

Transfer Course	
Transfer the course from this class to another class.	
Priority: medium	Cost: 2 days

### 3. Reason for Any Revised User Stories

**At iteration 1**, we focused on creating a big picture of the program. Unfortunately, we did not link the project with Github correctly. This directly causes the TA not able to open our project in his pc. **In this interaction**, we fix this problem and implement the iteration 2 user stories. Besides, after we discussed with our client team, we realized administrators should be able to not only add new membership but also delete one. So, we decided to revise the user story in iteration 1 by adding a new small story “delete current membership”. Moreover, our client team mentions that the system should

be able to register other gym staff including IT, janitors and front desk, etc. Thus, we add a new user story “Gym Staff Registration” which allows the gym staff to view their title, schedule and personal information. In addition, we fully complete the login interface which allows the user and administrator to log in through their own portal.

#### 4. Developer Tasks in Iteration 2

Implementation on new user stories - responsible by Tao Chen

Implementation on iteration 2 user stories - responsible by Wenxu Ye

UI and Database - responsible by Zhige Xia

Documentation - responsible by Haocheng Sun

update wiki

update planning document

revised architecture diagram

Testing - responsible by Sami Ullah

#### 5. Time Planned and Actual Time Taken for the Stories and Developer Tasks in Iteration 1

Iteration 1 user stories:

Story Type	Story Name	Time Planned	Actual Time Taken
big	Display course information	5 hrs	4 hrs
small	Display course schedule	2 hrs	1 hrs
small	Course price	2 hrs	1 hrs
small	Benefits of course	1 hrs	30 mins
big	Modify Membership	5 hrs	3 hrs
small	Display Membership Information	1 hrs	30 mins
small	Determine Member's Body's Index	2 hrs	1 hrs

small	Register new Membership	2 hrs	1 hrs
small	Delete current Membership	1 hrs	1 hrs
big	Inventory	5 hrs	4 hrs
small	Display Inventory	1 hrs	
small	Modify Inventory	2 hrs	2 hrs
small	Add equipment	2 hrs	2 hrs
small	Delete equipment	1 hrs	1 hrs

Iteration 1 Developer Tasks:

Developer	Responsibility	Time Planned	Actual Time Taken
Wenxu	Implement user stories	1 day	5 hrs
Tao Chen	Implement user stories	1 day	6 hrs
Haocheng	Planning Document	2 days	10 hrs
Zhige	UI	1 day	4 hrs
Sami	Database	1 day	3 hrs