

Planning Document(Iteration 3)

Project Name: Gym Management of Facility, Memberships and Staff

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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

<p>Display course information</p> <p>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</p> <p>Priority: high Cost: 7 days</p>	
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-small story1:Display course schedule

<p>Display course schedule</p> <p>Display the date, duration, and arrangement of courses.</p> <p>Priority: high Cost: 4 days</p>	
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-small story2:Course price

<p>Course Price</p> <p>Show the normal price and the promotion price of courses</p> <p>Priority: medium Cost: 2 days</p>	
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-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 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 a administrator, I should be able to delete current membership.

Priority: High

Cost: 5 hour

big story 3:Inventory

Inventory

As a manager, I need to be able to know the type and quantity of inventory equipment in the gym.

-small story1:Display Inventory

Display Inventory

Display the ~~details~~ of equipments that gym is using (name, quantity, picture)

-small story2:Modify Inventory

Modity Equipment
change the equipment information that present in the inventory (quantity)

-small story3:Add equipment

- Add equipment
- Add new equipment in to inventory
with information

-small story4: Delete equipment

Delete equipment	
Delete equipment that exist in inventory and all their information	
priority : medium	cost : 1 days

a. iteration 2 user stories:

big story 1: Modify Coaches

Management Big Story2 : Modify Coaches

As a Coach of the fitness, I want to be able to
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, phone number, 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 index currently.

Priority: Medium

Cost: 3 days

-small story 3: Display Coach Working Information

Display Coach Working Information

Coach should be able to see which member he is dealing with

Priority: High

Cost: 1 day

-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 BMI

Display BMI

No matter log in as coach or member,
I should see my BMI

Priority: Medium

Cost: 1 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: ViewPersonal 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:Display 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: Updated Course Schedule

Updated course schedule

After I enrolled a course , the course schedule should be updated.

Priority: Medium Cost: 1 day

-small story3: Course Schedule

Course Schedule

As a member, I should see my course schedule after enroll a course

Priority: High Cost: 2 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 staffs' Schedule

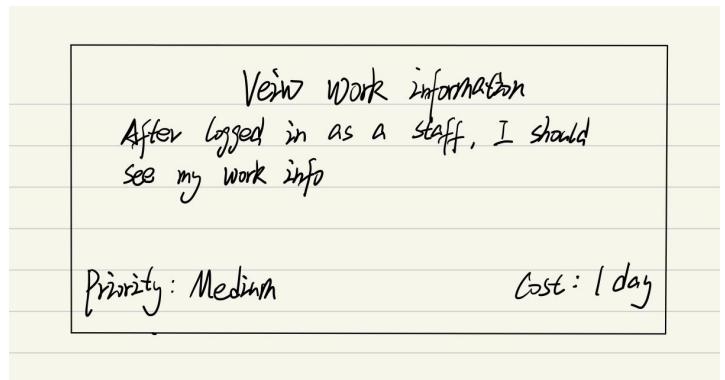
Small Story ② : View Staffs' Schedule

Staffs can view their schedule and their colleagues.

Priority : Medium

Cost: 1 Day

-small story3: view work information



big story 5: Log in

Big story 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 as 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 hours

-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 konw 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:Damaged equipment

[Damaged equipment](#)

Display of damaged or age-approved fitness equipment and quantity

Priority: low

Cost: 1 days

big story 3:Course management

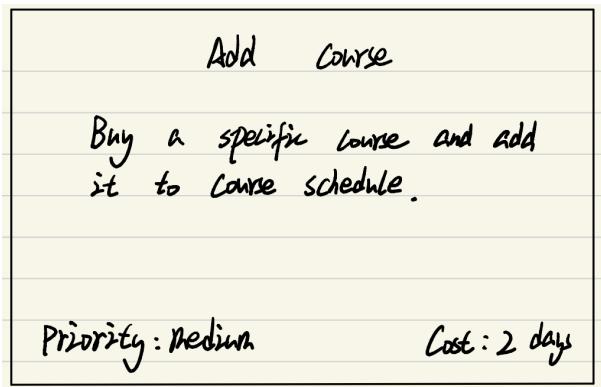
Manage Courses

As a client, I need to be able to manage which course I want to buy or cancel.

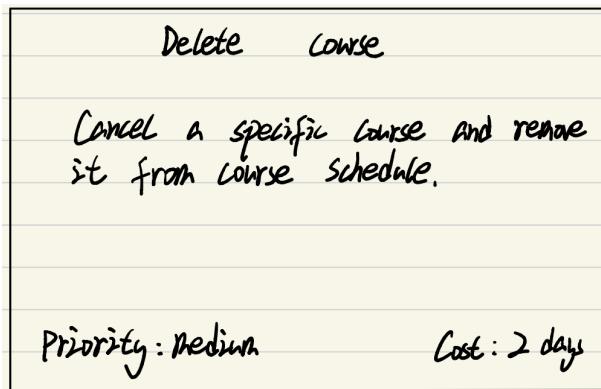
Priority: high

Cost: 6 days

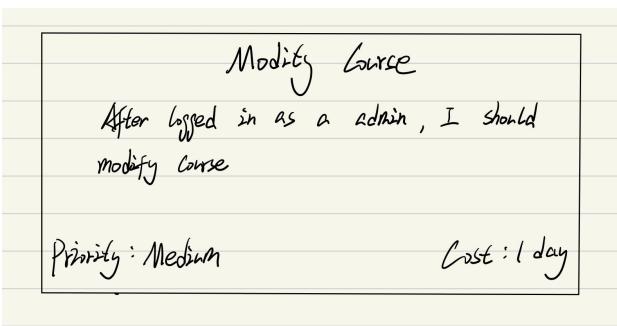
-small story1:Add course



-small story2:Delete course



-small story3:Modify Course



big story 4:Membership Fund

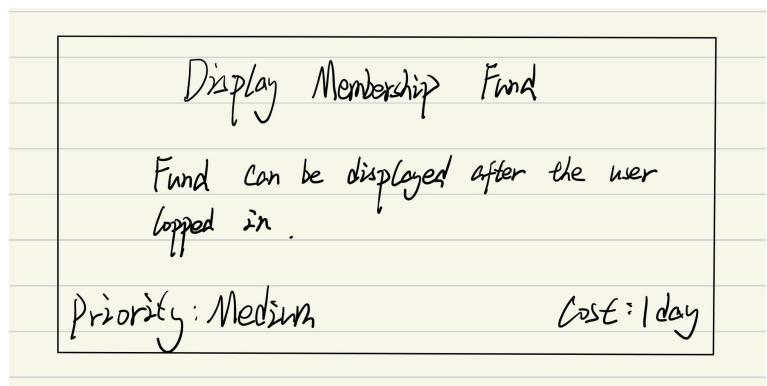
Membership Fund

As a member, I have a financial account that show how much money I have.

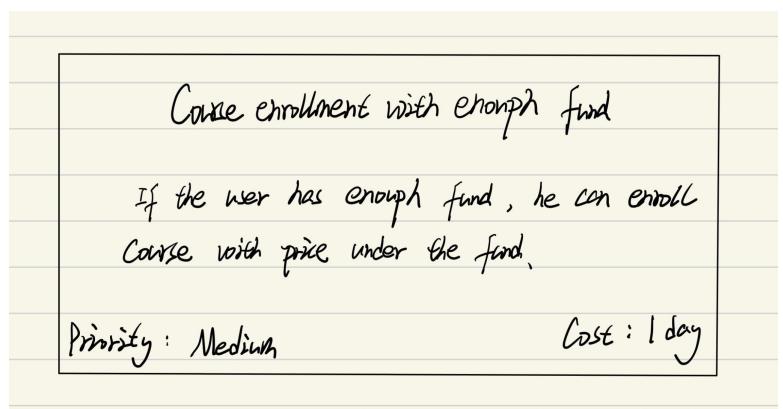
Priority : Medium

Cost : 3 days

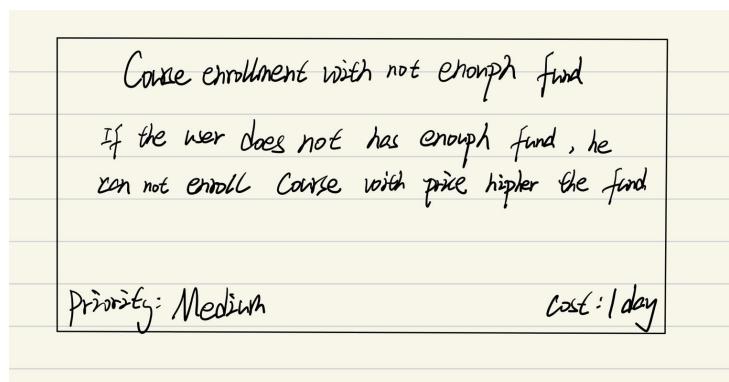
-small story1: Display Membership Fund



-small story2: Course enrollment with enough fund



-small story3: Course enrollment with no enough fund



3. Reason for Any Revised/New User Stories

After we met with our QA team, we decided to add a new big user story “Membership Fund”. The purpose of this user story is to enable the member to enroll in a course only when he has enough funds.

We decided to rename some of the user stories. After we implement the user stories, we realize the actual functionality is not accurately described by the user story.

“Exercise plan” is renamed by “course schedule”
“view staff schedule” is renamed by “view work info”

We removed “customer equipment need” since we found it is hard to use a number to represent customer need. This user story seems unprocurable, so we removed it.

We removed “Meal Plan” since we need another class to represent all kinds of food including whether the food is rotten and benefits of the food. This is too much work and it is not closely related to our topic, so we abandoned it.

We removed “transfer course” since it overlaps with “add course” and “delete course”. Administrator can do transfer if he can do add and delete, thus we removed this story.

4. Developer Tasks in Iteration 2

Implementation on new user stories - responsible by Tao Chen

Implementation on iteration 2 user stories - responsible by Wenzu 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 3 user stories:

Story Type	Story Name	Time Planned	Actual Time Taken
big	Equipment Information	5 hrs	4 hrs
small	General Equipment	2 hrs	2 hrs

	description		
small	Display equipment information	2 hrs	1 hrs
small	Equipment price	1 hrs	1 hrs
big	Equipment Management	5 hrs	3 hrs
small	Display In-use equipment	1 hrs	30 mins
small	Customer Equipment Needs	3 hrs	2 hrs
small	Damaged equipment	1 hrs	30 mins
big	Course management	5 hrs	3 hrs
small	Add course	2 hrs	1 hrs
small	Delete course	2 hrs	1 hrs
small	Transfer course	1 hrs	1 hrs
big	Membership Fund	5 hrs	3 hrs
small	Display Membership Fund	3 hrs	2 hrs
small	Course enrollment with enough fund	1 hrs	30 mins
small	Course enrollment with no enough fund	1 hrs	30 mins

Iteration 1 Developer Tasks:

Developer	Responsiblity	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
Temi	Refactor	1 day	8 hrs

6. Developer Tasks in Iteration 3

Retrospective Document - responsible by Tao Chen

Implementation on iteration 3 user stories - responsible by Wenxu Ye

UI and Database - responsible by Zhige Xia

Refactor - responsible by Odunfa Temiloluwa

Documentation - responsible by Haocheng Sun

- update wiki
- update planning document
- revised architecture diagram

Testing - responsible by Sami Ullah