

SENG 300 WINTER 2020

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PROJECT ITERATION 1

By
GROUP 02 LECTURE 02

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Product Backlog

Our project is to create a Hotel Online Booking System, here are all the user stories we considered so far for our project.

- As a client, I want to see all of types of rooms which the hotel has on the room reservation website page.
- As a client, I want to know how many rooms whose type I would like are available on the room reservation page.
- As a client, I want to make reservations with my name and phone number through the reservation webpage of the hotel when I do not have a account of the hotel official website.
- As a client, I want to create an account of the hotel official website.
- As a client, I want to upload my personal information(name, nickname, phone number, email and so on) to my account so that I can reserve rooms with this.
- As a client, I want to make reservations with my account on the reservation website page.
- As a client, I want to check my booking(order) on the order page.
- As a client, I want to cancel the booking(order) on the order page.
- As an administrator(hotel staff), I want to log in the dashboard of backend management.
- As an administrator(hotel staff), I want to change the information of the booking(order) for clients.
- As an administrator(hotel staff), I want to help clients to check-in on the client on the management page of the hotel when clients who have reserved come to the hotel.
- As an administrator(hotel staff), I want to help clients to check-out through the management webpage of the hotel if the client want to leave.
- As an administrator(hotel staff), I want to extend stay for rooms of clients through the management webpage of the hotel.
- As an administrator(hotel staff), I want to cancel room reservations for clients through the management webpage of the hotel.
- As an administrator(hotel staff), I want to create room reservations for clients through the management

webpage of the hotel.

- As an administrator(hotel staff), I want to check current information (including how many rooms left) of rooms through the management webpage of the hotel.
- As an administrator(hotel staff), I want to update a new types of room along with its information through the management webpage of the hotel.
- As an administrator(hotel staff), I want to change current information of specific rooms through the management webpage of the hotel.

Sprint Planning Meeting

Since our project is to make a web-based Hotel Online Booking System with **SSM** (Spring MVC+Spring+MyBatis). In this sprint we make sure that our **persistence layer** is able to work normally.

- First, Juwei will gather the requirement, put them together and make a use case diagram for us. Also, Juwei and Kaiwen will sort out all the product user stories.
- Second, we initially assign tasks according to the **MVC** standards. Haohu and Kaiwen will firstly design the database and tables in **DBMS** using **DDL**(data description language).
- Thirdly, Haohu's task is to write codes for most of persistence layer (**Model** in **MVC**) by using some knowledge from industry in MyBatis. He will confirm that all APIs that connects the database to all methods in the persistent layer work fine.
- Meanwhile, Kaiwen will help Haohu writing some extra test cases. Xudong and Yifei will record our meeting discussion and then make detailed reports. Kaiwen make all parts (user stories and reports) together and sort out an Iteration Report.
- Finally, Haohu and Kaiwen will check the format of the document and submit it as a PDF, with the code written so far as a zip file.

Sprint Backlog

According to the standard of MVC framework, we firstly achieve all of works on persistence layer. After the design of database, we can set corresponding persistent methods for each user story. Kaiwen and Haohu will participate this part.

- As a client, I want to see all of types of rooms which the hotel has on the room reservation website page.

TODO:

- Set a method which return a result set that contains the information of all the types of rooms.
- Write test cases for it.

Implementer: Haohu, Kaiwen

- As a client, I want to know how many rooms whose type I would like are available on the room reservation page.

TODO:

- Set a method which finds how many rooms left with the unique room number and return the result.
- Write test cases for it.

Implementer: Haohu

- As a client, I want to make reservations with my name, my ID as well as my phone number through the reservation webpage of the hotel when I do not have a account of the hotel official website.

TODO:

- Set a method which insert client id, client's name, client's phone number and room number that the client books to the booking table.
- Write test cases for it.

Implementer: Haohu

- As a client, I want to check my booking(information of my order) on the order page.

TODO:

- Set a method which queries the order according to the client's id and the client's email and the client's phone number and returns as a result set.
- Write test cases for it.

Implementer: Haohu, Kaiwen

- As a client, I want to cancel the booking(information of my order) on the order page.

TODO:

- Set a method which deletes the order with the client's id and the client's email and the client's phone number.
- Write test cases for it.

Implementer: Haohu

- As an administrator(hotel staff), I want to log in the dashboard of backend management.

TODO:

- Set a method that queries if the username and the password the user entered are valid and matched and returns as a result set.
- Write test cases for it.
- As an administrator, I want to change the information of the booking(information of my order) for clients.

TODO:

- Set method which updates new information to the order with the client's id and the client's email and the client's phone number.
- Write test cases for it.

Implementer: Haohu

- As an administrator, I want to help clients to check in on the front desk on the management page of the hotel when clients who have reserved come to the hotel.

TODO:

- Set method which adds record contains client information and roomID into check-in table
- Write test cases for it.

Implementer: Haohu

- As an administrator, I want to help clients to check-out through the management webpage of the hotel if the client want to leave.

TODO:

- Set method which deletes record contains client information and roomID into check-in table
- Write test cases for it.

Implementer: Haohu

- As an administrator, I want to extend the days to stay for rooms of clients through the management webpage of the hotel.

TODO:

- Set method which update new checkout date for the specific record.
- Write test cases for it.

Implementer: Haohu

- As an administrator, I want to cancel room reservations for clients through the management webpage of the hotel.

TODO:

- Set method which delete the record with specific room number
- Write test cases for it.

Implementer: Haohu

- As an administrator, I want to create room reservations for clients through the management webpage of the hotel.

TODO:

- The method is same as the method in user story 3.
- Write test cases for it.

Implementer: Haohu

- As an administrator, I want to check current information (including how many rooms left) of rooms through the management webpage of the hotel.

TODO:

- The method is same as the method in user story 1.
- Write test cases for it.

Implementer: Haohu

- As an administrator, I want to update a new types of room along with its information through the management webpage of the hotel.

TODO:

- Set method which add new record to the room table return the result.
- Write test cases for it.

Implementer: Haohu

- As an administrator, I want to change current information of specific rooms through the management webpage of the hotel.

TODO:

- Set method which update new information for a specific room and return the result.
- Write test cases for it.

Implementer: Haohu

Daily Scrum Meeting

We had 2 scrum meetings for the Iteration 1 in total.

- The first meeting was on Friday, Feb 21th (Juwei Wang, Haohu Shen, Kaiwen Jia, Xudong Miao and Yifei Lin presented the meeting).
 - The meeting was held in the computer science lab. We initially got to know each other by talking about everyone's strength and the part of the project interested in. In this first meeting, as we just got started, we haven't got any progress on the project yet, but we elaborated on how this project is going to be like and we prepared for the next meeting.
 - We also assigned tasks:
 - Yifei and Xudong were going to finish the report.
 - Haohu wanted to do coding part.
 - Juwei has some experience in making projects, so he helped us to gather requirements and make the use case diagram.
 - As the group leader, Kaiwen sorted out the user stories and showed them to Xudong and Yifei so that they can write into Iteration1 as the product backlog.
 - Also, Kaiwen should help Haohu to finish the part of design of database and persistence layer methods and give some details to Xudong and Yifei in order to finish reports.
 - Moreover, we did some configuration for the development environment (IDEA, MAVEN and how to use them).
- This meeting took us about 15 minutes in total.
 - The second scrum meeting was on Sunday Feb 29th. Everyone finished the first draft of the part they take charge of:
 - Xudong and Yifei had finished the outline of the Iteration1 report but still needed some details from other group members.

- Juwei had finished the use case diagram, and then Kaiwen and Haohu gave some feedback to him.
- Haohu had ensured the execution of the persistence layer. Kaiwen had written some test files for the persistence layer with Junit and showed that these persistent methods can be used by the business layer.
- Yifei and Xudong did some notes for these, and they also want to be responsible for the front end of displaying the page of the hotel system in the next sprint.
- Kaiwen will do most of the work on the business layer.
- Haohu will be the free man between frontend and backend to help both if one side needs extra work or looks for encountering a difficulty as Haohu has the most experience in programming among us. This meeting took us about 30 minutes in total.

Sprint Review Meeting

- We hold the first scrum meeting on Friday afternoon Feb 21st, it lasts for 15 mins. All team members attend the meeting.
 - We just tried to understand what should be included in the first sprint and assigned the tasks.
 - Furthermore, we took a lot at some current working products related to the topics of our project. The products include some mature hotel booking websites such as Booking and Expedia, and we spent some hours mainly using the booking and Expedia as a user to see how they work on booking a hotel. Booking and Expedia are both highly rated products and they built a path for us to keep working toward the right direction by using them as a reference. That helps a lot for making a plan for the whole sprint.
 - After the analyzing and evaluating in the first scrum meeting, it gave us some ideas of what our project is going to be like. We firstly clarified our product backlog (Juwei's part), and our main target is to show the user's hotel information and successfully book the hotel for them.
 - Regarding the work we need, there must be a page including the text and pictures related to the information of each shown to the user and we need to store this information in a database. Haohu had tried the best to finish this. Kaiwen had checked all codes and helped Haohu to make test files. Yifei and Xudong finished the whole iteration1 report. In the second scrum meeting, everyone is satisfied with the prod of others, and happy to make great efforts.

Retrospective Meeting

- We held our retrospective meeting on March 5th after the lecture and everyone attended the meeting.
 - This meeting lasted for only 15 minutes as the content required for a retrospective meeting is not much detailed.
 - We have ensured that everything in (Model) persistence layer can normally work. Some expectations

are: in the second sprint, we will start working on a business layer and frontend (View level).

- Filter is planned to add in our system to help the users find the most suitable hotel for them and it can include the location of the hotel, the room type, the additional services and the price range. Other than the things we stick with, we try to avoid any complicated steps which can create inconvenience for the user. We don't demand the users to log in the system for booking the hotel at the first sprint, but they can check in as a guest instead by just filling their basic personal information, and we will achieve the login function in the second sprint (deal with username and password parameter from the frontend in the business layer).
- Moreover, in the aspect of creativity, we were also trying something new, such as a rating system for the service of hotel stuff. These can be easily added after we finish the basic frame of our project if we have enough extra time.