

# SENG 300 WINTER 2020

## TEAM MEMBERS

Kaiwen Jia 30050173 [jiakaiwen5216@gmail.com](mailto:jiakaiwen5216@gmail.com)  
L02 T05 TA: Pavankumar Karkekopp

Haohu Shen 30063099 [haohu.shen@ucalgary.ca](mailto:haohu.shen@ucalgary.ca)  
L02 T04 TA: Eric Austin

Juwei Wang 30053278 [juwei.wang@ucalgary.ca](mailto:juwei.wang@ucalgary.ca)  
L02 T02 TA: Pavankumar Karkekopp

Xudong Miao 30050905 [xudong.miao1@ucalgary.ca](mailto:xudong.miao1@ucalgary.ca)  
L02 T09 TA: Lorans Alabood

Yifei Lin 30043746 [yifei.lin1@ucalgary.ca](mailto:yifei.lin1@ucalgary.ca)  
L02 T09 TA: Lorans Alabood

## PROJECT PROPOSAL

By  
GROUP 02 LECTURE 02

February 25, 2020

# Project Proposal

---

## Project Description:

### What is the problem that our software solve?

We provide a software solution on online hotel booking and its relative services, more specifically, our target domain includes two kinds of people, customers and hotel employees:

- We make customers be able to interact with hotel employees on booking rooms online, including checking how many rooms are still empty with its type, price and the information about layout. A customer can book a room by leaving its phone number. Also a customer can cancel its booking.
- We also make hotel staffs be able to check how many rooms are still empty for booking on scheduling, as well as check the information of every customer who is currently occupying a room. Hotel employees could also use this application on room checkout. We decided that the system can store the history of booking as backlogs for a period of time, which also makes employees be able to figure out the most welcome room type since last month.
- Last but not least, since we plan to separate the backend and the frontend components, it will make employees' lives more easier if employees decide to maintain or update the system themselves.

### What kind of software will we implement?

We decide to implement a web-based application which meets customers' requirements by Java since people from different portals (include but not limited to mobile phones, personal computers, laptops) can directly visit our app as long as it is connected to the Internet and they do not need to install extra components, as long as they have a web-browser on their devices. Moreover, Java has several high-performance frameworks for the development of web-based app, we could choose some of them to build our project efficiently.

### What are the benefits that the software would bring?

- It will be convenient for hotel employees on scheduling, including checking how many rooms are available according to different types, checking the potential earliest checkout in the future. Additionally, it helps the hotel on the calculation of accounting, and the employees can do some statistics base on the booking history to find the most welcome room type.

- It will be convenient for customers on remote booking, especially for travellers coming from other cities, since our app allows customers to explore and check prices and reservation status online of rooms with different types in hotels and no longer have to call the hotel service or book on the hotel front desk.
- It will also be convenient for hotel employees on web-maintenance since we will separate back-end components and front-end components.

## Who is your targeted audience?

- Hotel customers
- Hotel employees / owners

## Project Team

### Team Goal

Since our team believes it is important to follow the best practices of software engineering, the first step we will do is to understand and learn how to use various software engineering standards we have instructed in the lecture and applicate them in a context of real development. By incorporating software engineering standards into development, we believe we can avoid common development errors and improve development efficiency as well as enhance the maintainability.

Also, we will learn how to communicate with customers and meet their expectation and dynamic needs, since our highest priority is to satisfy the customer through early and continuous deliver of valuable software. Finally, we will complete our project to a high standard so that every team member is able to have a chance to understand and practice the essence of software engineering with getting good grades.

### Team Roles

- Team leader:
  - Kaiwen Jia
- Scrum master
  - Kaiwen Jia
  - Haohu Shen
- Front-end Design
  - All team members
- Back-end and database design
  - Kaiwen Jia

- Haohu Shen
- Quality Assurance
  - Juwei Wang

## **Tools**

- Tools for communication
  - Mainly on WeChat, but we think face-to-face is still a good option.
- Tools for developing
  - Java
  - Spring
  - SpringMVC
  - Mybatis
  - MySQL
  - Javascript
  - Maven
  - Node.js
- Tools for coding
  - JetBrains IDE collections
  - VS Code
- Tools for version control
  - Github
- Tools for debugging
  - Firefox

## **Attended requirement gathering meeting:**

Kaiwen Jia  
Haohu Shen  
Juwei Wang  
Xudong Miao  
Yifei Lin

## Signature

(Digital signature)

Haohu Shen

Juwei wang

Gifei Lin

Kehuen Jia

Xudong Miao