

# Software Studio II

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Project: Hotel Management system

World (True: things everyone takes for granted)

What are the essentials of a Hotel Management system? Why was this platform made? What market is it for and what are the essential core values?

Similar Programs: booking.com, hotels.com

- 1) Web accessible
- 2) A way to view the interface of the hotel
- 3) Easy to navigate
- 4) Provides interface to view client bookings
- 5) Private small hotel commissioned website

Requirement (System Domain: User Language need)

- 1) Navigation of floors
- 2) See room properties and book rooms
- 3) Log in for users
- 4) User Menu and hotel contact pages, facilities

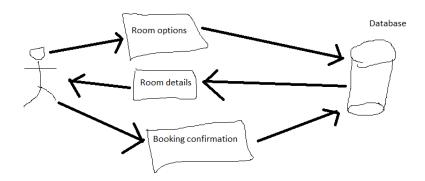
## Specification (Computer Domain: Technical elaboration)

- 1) Provides web hosting: initial web hosting contract assumed to be 5 years.
  - a) MacOS
  - b) Win32
- 2) Payment at desk page after booking
- 3) Hotel Floor Plan
  - a) Ground floor: Reception, 2 two-bedroom, dining room, game room.
  - b) 1st floor: 6 single-bedroom
  - c) 2<sup>nd</sup> floor: 6 single-bedroom
  - d) 3<sup>rd</sup> floor: Pool, 4 two-bedroom
- 4) Room details (user)
  - a) Price
  - b) No of beds
  - c) Floor
  - d) Occupation status
  - e) Booking calendar
- 5) Room details (staff)
  - a) Price
  - b) Payment status
  - c) No of beds
  - d) Floor
  - e) Booking calendar
  - f) Occupation status, initals of client
  - g) Cleaning status
- 6) Other site pages
  - a) Contact page
  - b) Landing home screen
  - c) General Rules
  - d) Facilities (game room, dining, pool)
  - e) Login page
  - f) See booking page, with stay duration, price
  - g) FAQ page

# Explicitly define what we do NOT do:

- No Inbuilt payment
- No room report faulting
- No room reviews
- No chat box for staff client communication
- No extra hotels, map integration

# Model showing some interaction between user, website and database:



# Security and risk management:

- Customer data could be leaked,
- Customer could book and not show up, which will cause a drop in revenue.
- No email confirmations are sent, therefore lying about your identity is quite easy.

# Development schedule:

Project start: 12.Oct.2022

# 18 November 2022:

- Complete planning
- Set up development environment

### 25 November 2022:

- Set up database
- Basic planning of front-end design
- User sign up

### 2 December 2022:

- User log in
- User permissions (after logging in user will be redirected to different pages based on permissions)

#### 16 December 2022:

- View hotel rooms and their information
- Book hotel room

#### 15 January 2023:

Complete all pages and functionality

Rest of the semester will be dedicated to working on bugs, details and documentation.

#### 18 January 2023: Final Presentation

#### Project Structure:

In the main file we have the basic project files for a Django web application. There are also three important folders. Documentation, which contains all our documentation for the project. "hotel", which contains more setup files for the web application and "hotelapp" which is where all the files necessary for development are stored.

In the hotelapp folder we have the following important directories:

Fixtures: Where preloaded data for the database is stored.

Migrations: Where database migrations are stored.

Static: Where CSS and other static files are stored.

Templates: Where HTML files are stored.

The other files in this directory are all python files used for the project.

#### Testing issues:

Although the project has all the necessities needed for a hotel, we found some things we could have improved. Being able to edit profile details would be nice for the customer. Adding email confirmation for when an account is created and also when a hotel room is booked would be quality of life and security improvements.