

Hotel Booking App

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April 20,2022

“Tamim IT Solution”



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Executive Summary:

Majority of the People in our country Struggle to find a proper place to stay one or more day/night to a proper hotel. The purpose of this project is to develop a such software/app that is used to find a proper hotel for the users who want to stay in a hotel.

The first goal of the project is to build a hotel booking software/apps using C# windows form or others programming language and android studio. The second goal is to build a simplest user-friendly interface for all kinds of end users. This software can be run into all Android devices and Windows operating system. We also build a separate version of this app/software for Apple and Mac users. The project will be completed in five months and it's cost around BDT 500000.

Introduction:

Hotel booking system is basically an online booking system. There are two types of end user. One is hotel authority and another one is the general people who want to stay in a hotel. By this app/software a customer can easily find their suitable place for stay. On the other hand, the hotel authority can increase their sales. By using this we can reduce telephone-based sales system. Customers can see the ratings of a hotel and can easily decide to stay in. Both money and time will be saved by using this app/software. Also, customer and hotel both securities will be increased.

User must need internet connection or broadband connection to open this app/software and run it.

We have already done some general testing of different part of this project and we are successful at every point.

Project Description:

One of the most important and challenging parts of the project is to gather requirements. There are two kinds of requirement to build any software. One is Functional and another one is Nonfunctional requirement. Functional requirements are must be implemented when we build this software. Nonfunctional requirements are also necessary but they are less important for this project. We use a smaller number of nonfunctional requirements to build this project.

The **functional requirements** are:

- ***Collect the Database of the hotels.***
- ***Create a Signup page with two field. (User use their Email or Phone Number in that field and provide a password)***
- ***Create a page to collect user's Name, Address, Phone Number, E-mail, Gender, NID card or Birthday Certificate.***
- ***Create an option to select whether the user is a hotel authority or a customer.***
- ***Save the user information into a database.***
- ***Create a Login page. (When the app recognize that the given phone number or Email is matched with the database then it shows "This Phone Number or Email is already used. Please go to the Login option")***
- ***Create a search option with "Filtering" and "Sort by" facilities.***
- ***Create a select button and there will be two buttons. One is "Manually" and another one is "Auto". ("Auto" select functionality will enable when user turn on their location or when user use filtering option in the search panel)***
- ***User location tracker. (When user select this option and turn it on then it wants to take a permission from the user to allow it to turn on the location option)***
- ***Create a unique "User ID" according to the user's name.***
- ***Create an option for payment. (If user booked a hotel room, then he/she has to pay advance)***
- ***Create a rating option. (User can give their rating about a hotel. They can give 1-to-5-star rating)***
- ***Create a feedback button. (User can write their feedback about a hotel)***
- ***Create a dropdown button. (It contains "Setting", "Feedback", "Rating" options)***

The ***nonfunctional requirements*** are:

- ***Send a confirmation Mail and SMS.***
- ***How much time will it delay after confirming a hotel?***
- ***Send an OTP for security purpose.***
- ***Create a suggestion option.***
- ***Show some advertise of various companies for earning a big amount.***

Project Narrative:

There will be a Signup page where the user creates their profile. Then an option will come that asks the user to select whether the user is a hotel authority or a customer. If a user select that he/she is a customer then he/she must submit his/her NID card and then a User ID will be given. If a user select that they are the hotel authority then they have to Pay a certain amount of money to register their hotel. Then a page will come where they give their hotel details (Number of rooms, Food menu, Facilities etc.).

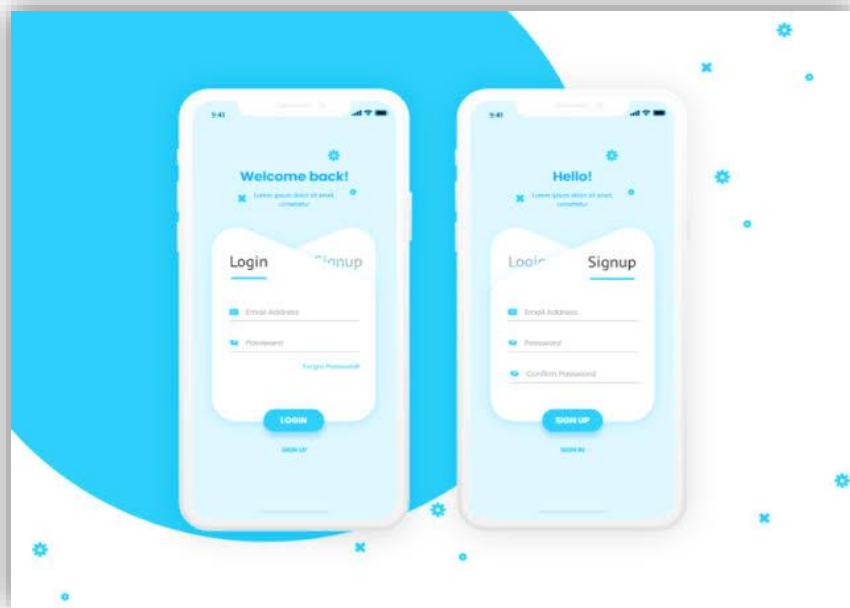
There will be two databases. One is for Customers and another is for hotel details. When a user search for a specific hotel then the hotel database will be used. There will be a filtering option. By this option user can select single or double room, AC or non-AC room etc. etc. User can search according to the cost “high to low” or “low to high” which is included into “Sort by” option.

Here user have to open an account through their phone number or email address. They can book a hotel manually. Besides there will be an option that when they open their location then the app with show the available hotel around their location. User also select the quality and cost amount to find their respective hotel. There will be an option to pay their bill through Bkash, Nagat, T-Cash, Tap, Upay, Credit/Debit card, Mobile Banking. When a customer booked a hotel then he/she has to pay a certain amount of money in advance.

At first, we build this app for 100 users then we update it day by day. We will test every phase of this app. We have to gather all hotel details in our database.

Project Overview:

The “*Signup*” and “*Login*” page:



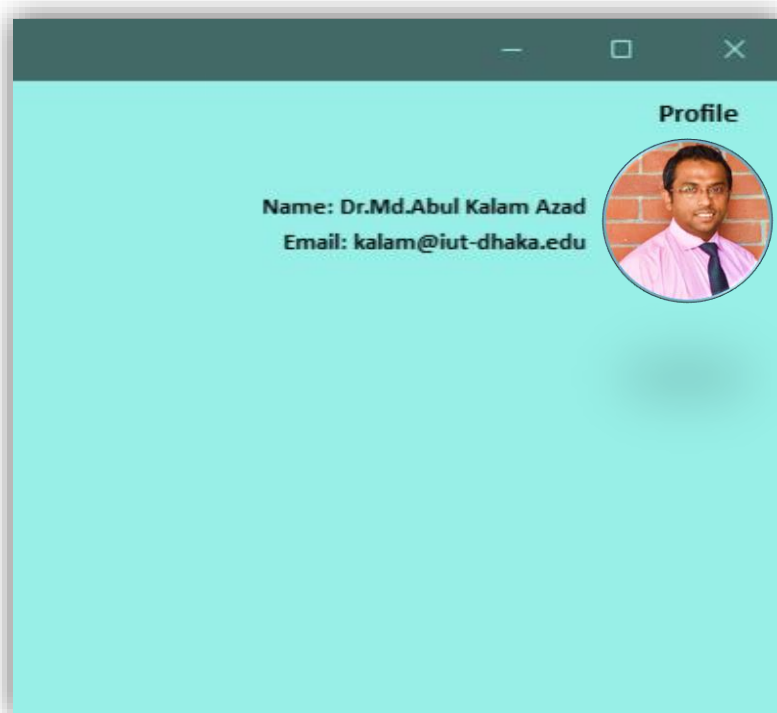
Sort by Option:

Default	<input checked="" type="radio"/>
Price (Low > High)	<input type="radio"/>
Price (High > Low)	<input type="radio"/>

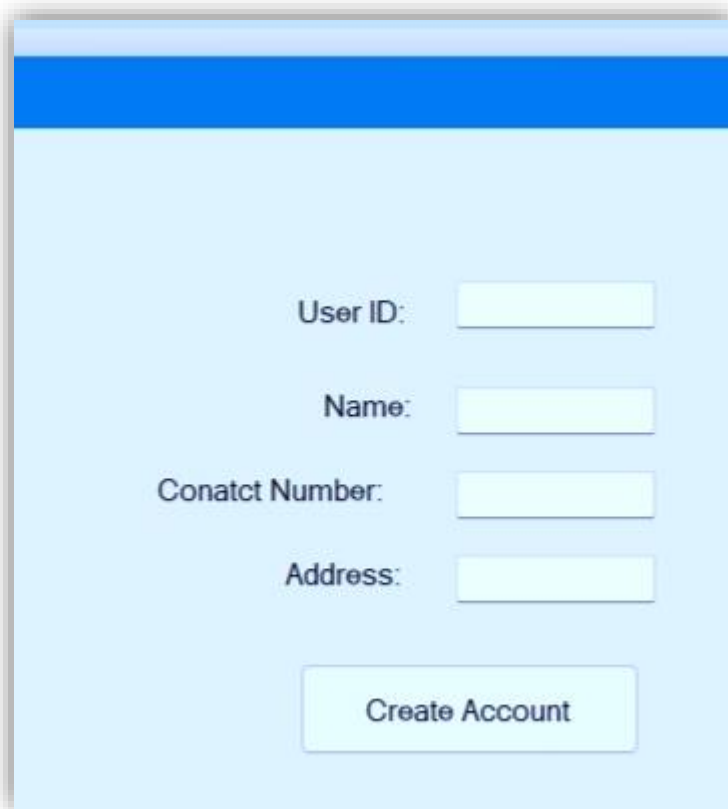
Payment Option:



User Profile:



User *Information* gathering:



A screenshot of a web form for user registration. The form has a light blue background and a blue header bar. It contains four input fields: 'User ID:', 'Name:', 'Conatct Number:', and 'Address:'. Below these fields is a 'Create Account' button.

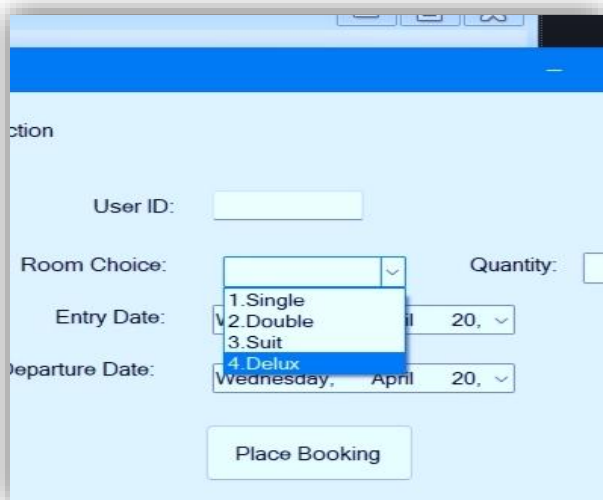
User ID:

Name:

Conatct Number:

Address:

Room choice and *Quantity* selection:



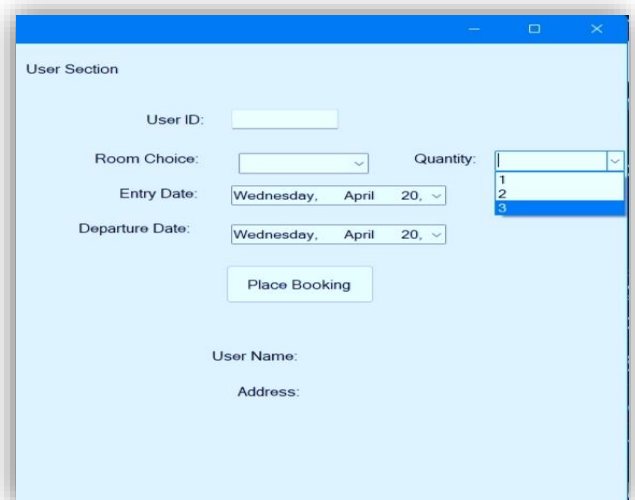
A screenshot of a web form for room selection. The form has a light blue background and a blue header bar. It contains four input fields: 'User ID:', 'Room Choice:', 'Entry Date:', and 'Departure Date:'. The 'Room Choice' dropdown menu is open, showing options: '1.Single', '2.Double', '3.Suit', and '4.Delux'. The 'Quantity' field is a text input. Below these fields is a 'Place Booking' button.

User ID:

Room Choice:

Entry Date:

Departure Date:



A screenshot of a web form for user registration. The form has a light blue background and a blue header bar. It contains four input fields: 'User ID:', 'Room Choice:', 'Entry Date:', and 'Departure Date:'. The 'Room Choice' dropdown menu is open, showing options: '1', '2', and '3'. The 'Quantity' field is a text input. Below these fields is a 'Place Booking' button.

User ID:

Room Choice:

Entry Date:

Departure Date:

Pricing:(Income and Cost)

Income:

- Hotel authority registration fee: BDT 5000
- User per subscription fee (Delivered by the hotel): BDT 50
- Advertising agency: BDT 250000
- Payment receiver company: 7% of the total amount given by the user

Software building cost:

- Buying paid version of different software which are using to build this project: BDT 25000
- Salary of Software Engineer and Project Engineer: BDT 450000(For 5 months)
- Testing and other cost: BDT 25000

Qualifications:

As a Software Engineering student for 1 year, I've worked with almost 50 business projects. Previously we did various project. A few of them are:

- ✓ **Library Management System**
- ✓ **Hotel Management System**
- ✓ **Employee Management System**
- ✓ **Student Management System**
- ✓ **Teacher Management System**
- ✓ **Train Management System**
- ✓ **Hospital Management System**
- ✓ **Laundry Management System**
- ✓ **Shop Management System**
- ✓ **Car Washing Management System**
- ✓ **Car Renting System**

All project is saved in my "**GitHub**" repository.

My GitHub repository link is: <https://github.com/Tamim200042130/SWE-4202>

Terms and Conditions:

Amount paid upon signing:

50% of the total payment is due upon signing.

Cancellation Policy:

The contract can be canceled up to **1 month** prior to the project starting date.