

BookByers

PROJECT REPORT- Review 2

*Submitted in fulfilment for the J-Component of ITE1008 – Open Source
Programming*

CAL COURSE

in

B.Tech. (Information Technology)

by

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SITE



VIT[®]
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

School of Information Technology and Engineering

Winter Semester 2020-2021

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Abstract

Many people have a tough time choosing roommates and the type of room/block they want during hostel counseling. Sometimes vacancies in different hostel blocks become unpredictable. In the end, having no choice, some people will have to choose unknown roommates and continue with them for the next 1 year. The project "BookByers" makes this process smooth and flexible for everyone. Verified college students after joining the portal can either join a room or create a room. People who would like to create a room would be given an access code hence enabling other students to join using it and people searching for roommates can filter the existing rooms based on various criteria and put a request to join them. The room owner decides whether to accept it or not. This application would reduce the last-minute hassle in hostel room counseling and helps students choose better roommates.

Introduction

Choosing roommates should be done carefully because they influence the mentality and productivity of a student. It can either be in a good or a bad way. Since the nature of the original counselling process is unpredictable, choosing room-mates would be difficult at the last moment and students will have to go with those who ever have vacancies available at that point of time.

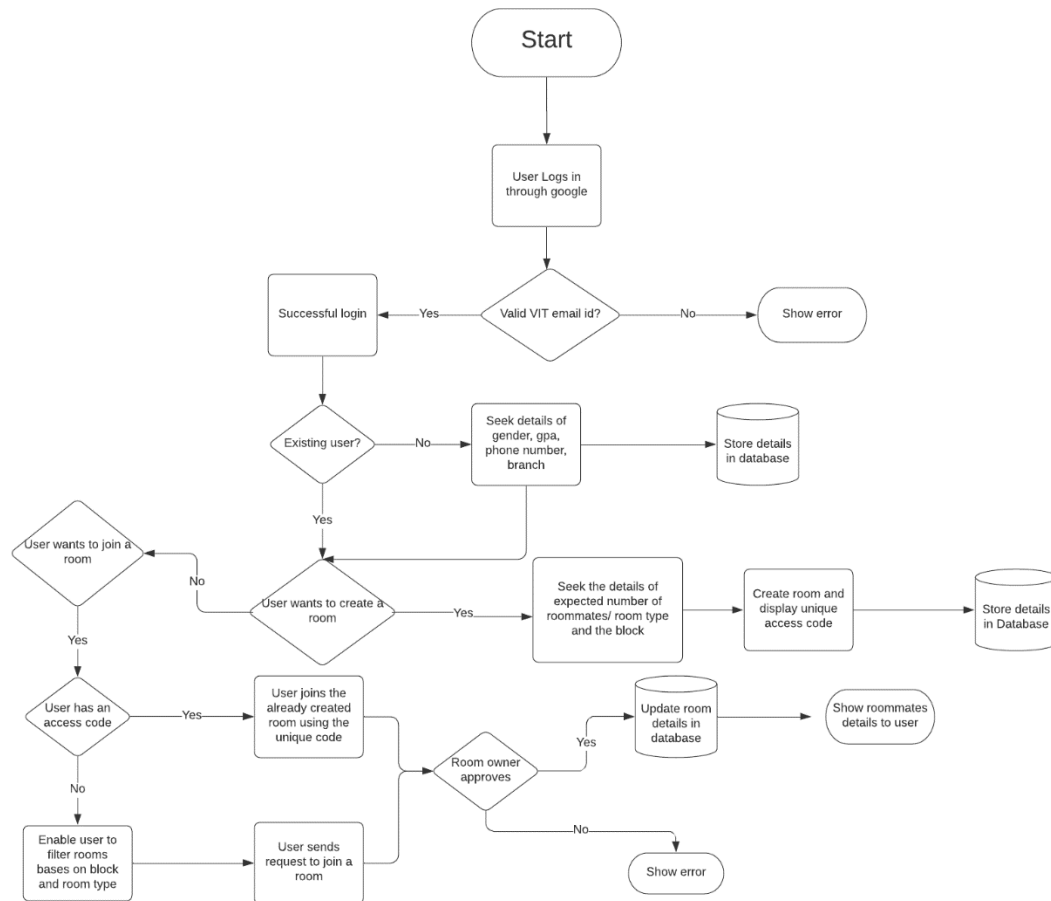
Students log in to the portal through their college email id. Hence using this, the year and the identity of the student are confirmed and verified. Only the students/rooms belonging to the same year category will be displayed to a person. Students can either create a room or join a room by putting up a request. The person who creates the room will be considered as the room-owner and will be given an access code after he/she provides the details like expected block, room type, minimum GPA to join the room, and the preferred roommates(Based on their original locality). For the students who want to join rooms, a table will be displayed and can be filtered according to various criteria. These students can request to join the room. It's the decision of the room-owner whether to accept the request or not. The existing room-mates details will be visible to everyone who has joined a room.

Using this application, things become easier and smooth enabling students to properly plan their room-mates before the actual counselling process. The application will be made using Php, MySQL, React, NodeJS.

Problem-statement

To develop an application that enables students to plan out their room-mates before the actual hostel counselling process.

Process-flow diagram



Modules

The main stakeholders here are the students with a high gpa who want to create a room and the students who want to join a room.

- Login module

Students can login to our portal through google. For the people logging in for the first time, student names and emails will be stored in the database in the forms of columns. Each student will be given an ID which is the primary key. For re-visitors, the previous data they have exchanged with the website will be brought back (Like rooms created, star marked rooms).

- Student detail module

After the students successfully login, they will be asked about their details like gender, phone number, branch and preferred roommate locality. The details they provide will be updated in the database.

- Create room module

Students can create a room and invite other students to join them using the access code provided. Since people with a higher gpa have better chances of getting rooms of their choice, this feature is mainly for them.

- Filtering data based on user inputs

Students can filter the various rooms displayed according to the criteria of their choice and request to join a room they wish. The criteria of filtering can be room-type, block, room-owner locality, room-owner gpa etc.

- Approve/Reject module

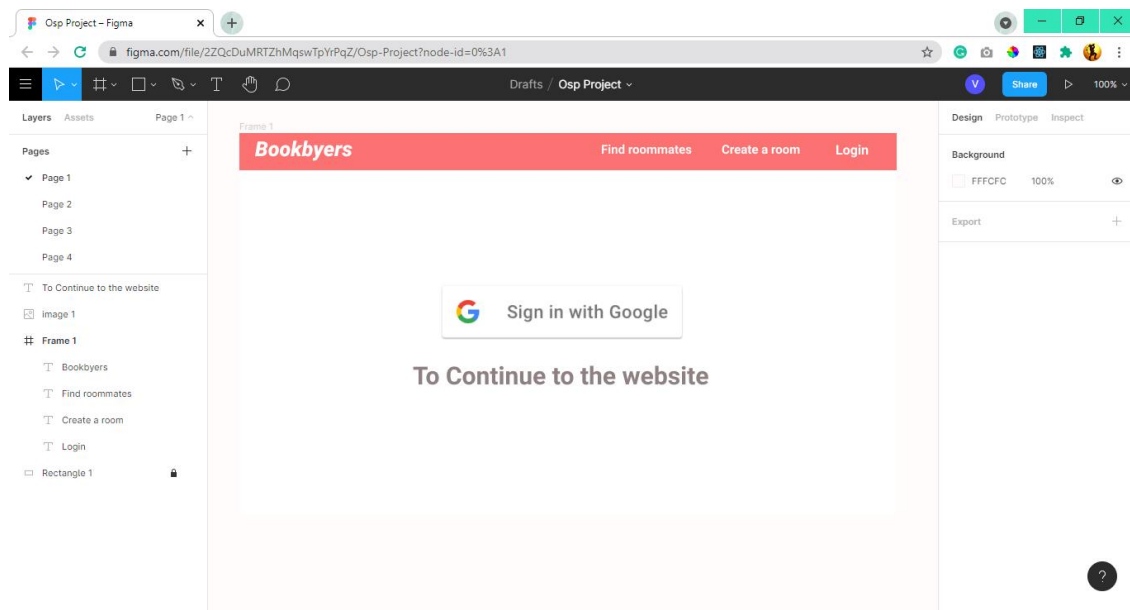
Room owners can approve or reject the requests put up by the people who want to join their room or bookmark them for later references. The room owner will have the power to delete any of the existing roommates.

- Bookmarking module

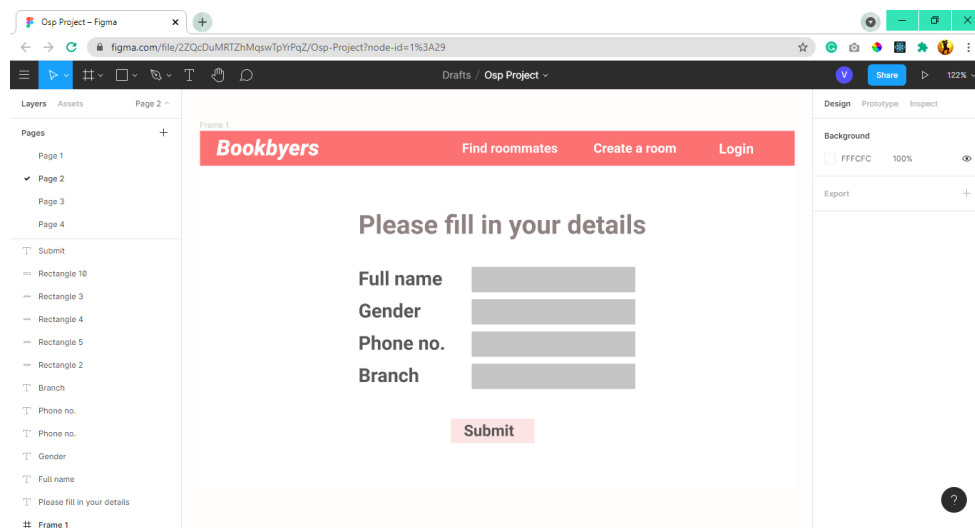
Room owners can bookmark some specific requests which they would like to look upon later. In the same way, people searching for rooms can bookmark a few and can be used for later references.

Prototype

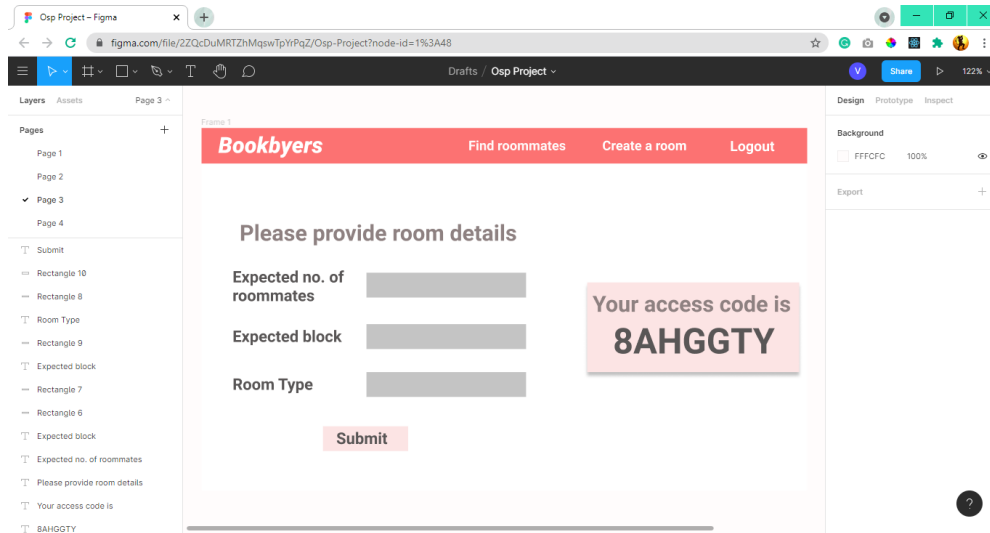
1. Login page



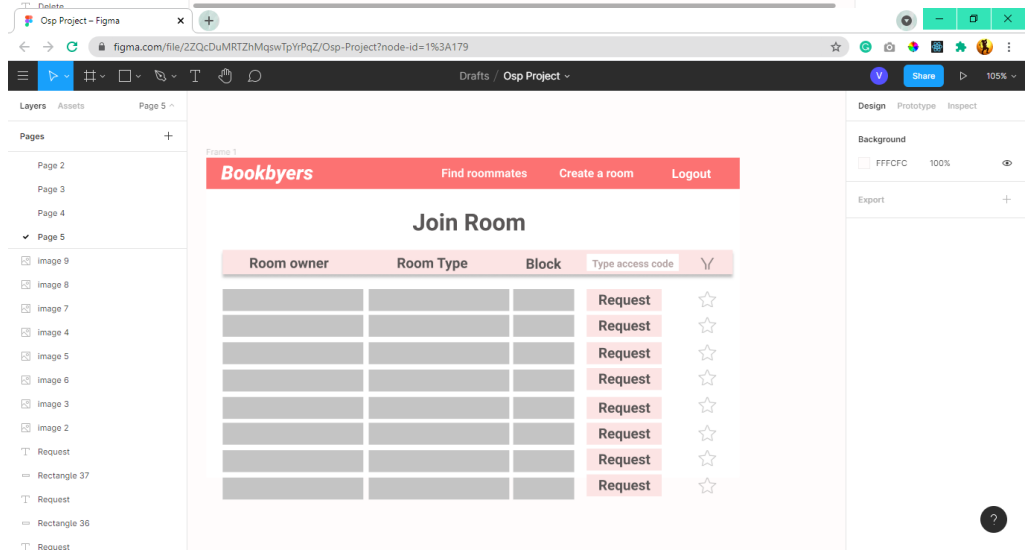
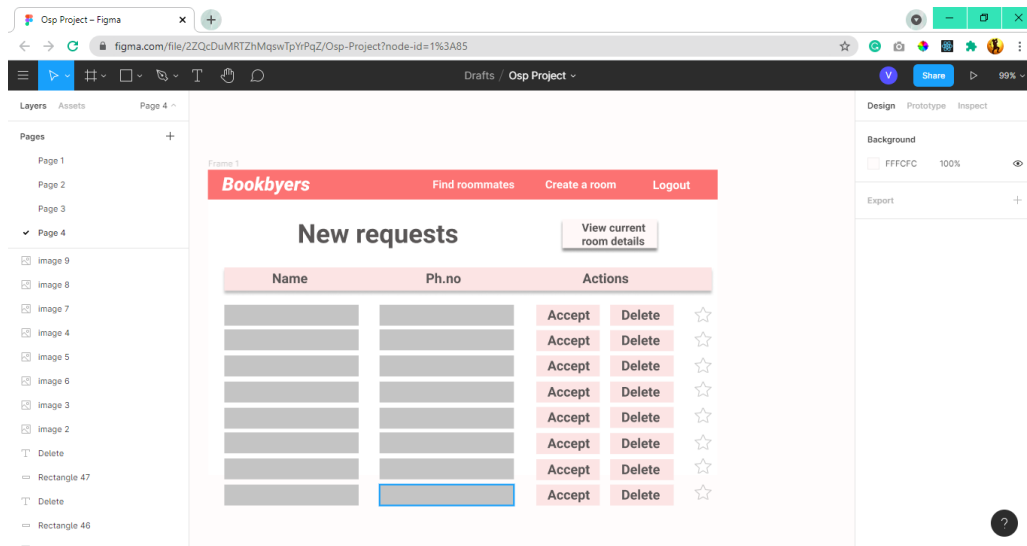
2. Students detail page



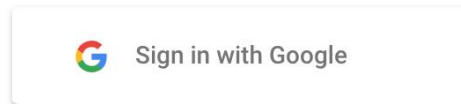
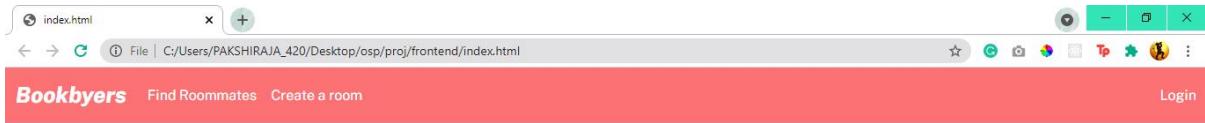
3. Room-creation



4. Room filtering and approve/reject



Front-end



To Continue



First name	Last name	Username
<input type="text" value="Vamsi"/>	<input type="text" value="Krishna"/>	<input type="text" value="@"/>
Looks good!	Looks good!	Please choose a username.
Roll Number	Gender	State
<input type="text"/>	<input type="text" value="Choose..."/>	<input type="text" value="Choose..."/>
Please provide a valid roll number.	Please select a valid gender.	
<input type="checkbox"/> Agree to terms and conditions You must agree before submitting.		
<input type="button" value="Submit details"/>		



Please provide room details

How many beds per room?

Expected Block?

Type of room

Submit

Access Code

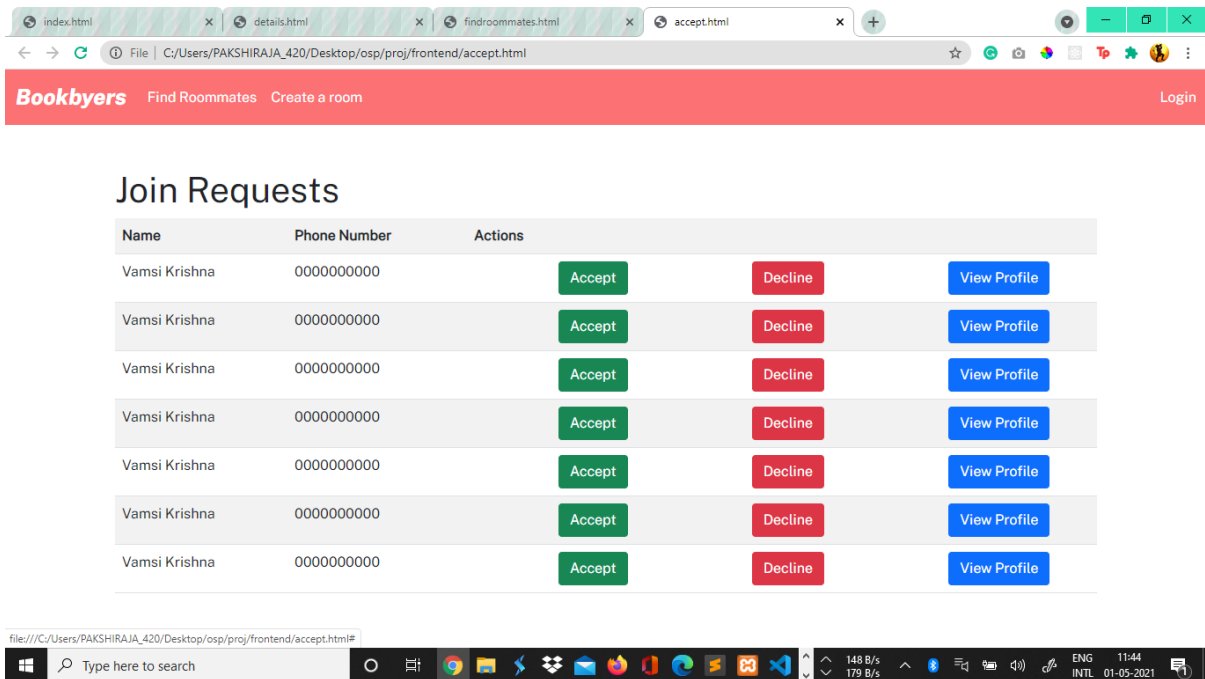
Your Access code is

85Z6LG

[Share](#) [Invite Roommates](#)

Join Requests

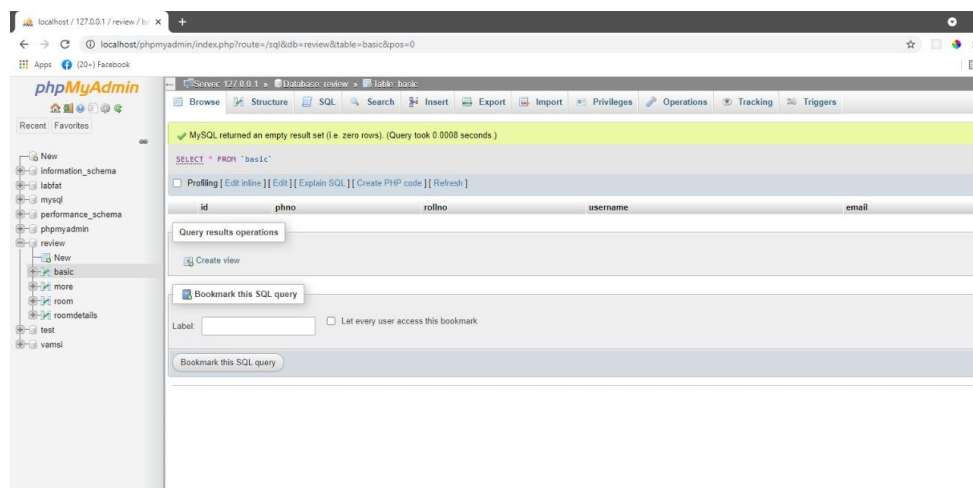
Room Owner	Room Type	Block	Find by Room Id	Filter
Vamsi	Non-AC	Q-Block	Request to join	Bookmark
Vamsi	Non-AC	Q-Block	Request to join	Bookmark
Vamsi	Non-AC	Q-Block	Request to join	Bookmark
Vamsi	Non-AC	Q-Block	Request to join	Bookmark
Vamsi	Non-AC	Q-Block	Request to join	Bookmark
Vamsi	Non-AC	Q-Block	Request to join	Bookmark



Database Design

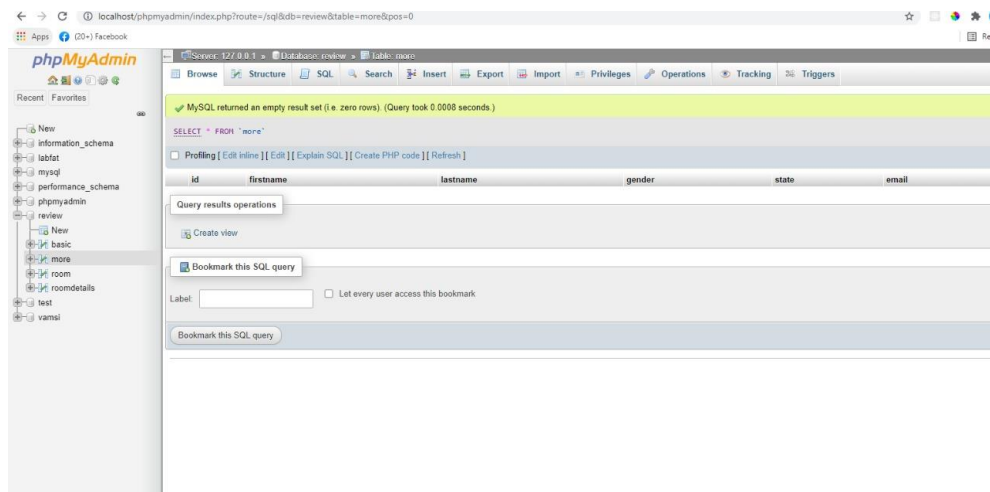
1.basic_details table

ID (PK)	phno	ph.no	roll.no	username	email
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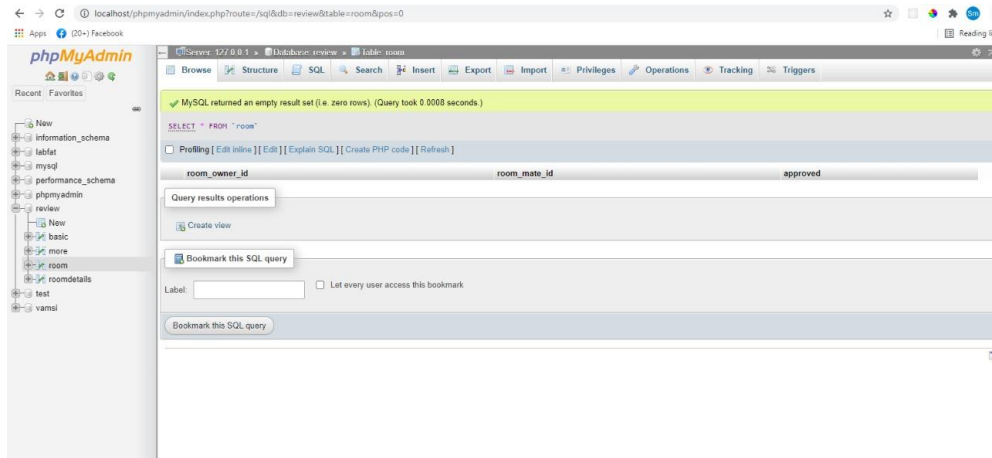
2.more_details table

ID(FK)	first_name	last_name	gender	state	email
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3.roommates_table

room_owner_id (FK)	room_mate_id(FK)	approved
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4.room_details

room_owner_id	type	preferred_block	beds	access_key
---------------	------	-----------------	------	------------

Apps (20+) Facebook

phpMyAdmin

Recent Favorites

- New
- Information_schema
- labfat
- mysql
- performance_schema
- phpmyadmin
- review
- New
 - basic
 - more
 - room
- roomdetails
- test
- vamsi

Server: 127.0.0.1 Database: review Table: roomdetails

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0007 seconds)

`SELECT * FROM 'roomdetails'`

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

room_owner_id	type	preferred_block	beds	access_key
---------------	------	-----------------	------	------------

Query results operations

[Create view](#)

[Bookmark this SQL query](#)

Label: ☐ Let every user access this bookmark

[Bookmark this SQL query](#)