

PUCIT-Project Coordination Office	Version 1.0
Lahore Tour Guide Proposal	Date: 7 th October, 2020



PUCIT
Punjab University College of Information
Technology

Lahore Tour Guide

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Final Project Proposal Guide

1. Introduction

Nowadays, 87% travelers and tourists use navigation apps and smartphones while traveling to new places. Cities across the globe are looking for new ways to offer useful information to tourists and people unfamiliar with the city for a pleasant and guided stay. Many cities have come up with their own apps for the guidance of such people. We aim to develop and design a similar app that will not only give travelers and tourists easy access to the Lahore city's points of interest. But, also allow them to find and book the best place for their stay in the city.

1.1 Project Title

Lahore Tour Guide

1.2 Project Overview Statement

Our aim is to create a user-friendly application for guiding the tourists and paying guests to learn best about the Lahore city. Our application will define, describe and direct the users to specific locations. For this purpose, we are going to integrate google maps in our application. Moreover, our system will allow the renters to quickly contact hotels and landlords. The renters can select a certain area and see the list of rooms and hotels available, public reviews and feedbacks and then book a room easily via online payment or on-site payment. By default, the app will locate the current location of the user and show the nearby areas and points of interest. These locations will be divided in several categories to help user make custom search easier. The users can change the location and find the areas and places anywhere in the city. On the other hand, landlords and hotels can have their profiles and post advertisements for the availability of the rooms and apartments. The renters can either book rooms in hotels or can find a room to stay as paying guest.

Project Overview Statement Template

Project Title: Lahore Tour Guide			
Group Leader: Bilal Mubarak			
Project Members:			
Name	Registration #	Email Address	Signature
Maham Mubashir	BSEF17M008	bsef17m008@pucit.edu.pk	
Anzala Mohsin	BSEF17M018	bsef17m018@pucit.edu.pk	
Mubarra Naz	BSEF17M031	bsef17m031@pucit.edu.pk	
Bilal Mubarak	BSEF17M056	bsef17m056@pucit.edu.pk	
Project Goal:			
Develop a platform to guide tourists and travelers about every point of interest in the Lahore City and ease their stay in the city.			

Objectives:	
Sr.#	
1	Understanding the Idea; Researching the work done on the idea and understanding scope and all aspects of the idea.
2	Understanding the Technology; Learning and understanding the required languages, frameworks, tools and technologies.
3	Building the skeletal structure; understanding and building the detailed application architecture and workflow of the system.
4	Design Selection; Interactive UI design creation and selection based upon the built structure of the app.
5	Location Guide; integrating google maps for location defining and guidance, distributing locations in different categories.
6	Stay guide; helping travelers and paying guests to find a place to stay in a certain area in a certain budget, in hotels as well as rental apartments.
7	Increase revenue of hotels and landlords; Allowing different hotels and landlords to application increasing their demand audience. A step toward automating room allotments.
8	Feedback and review; Allowing users to give feedback and reviews on locations, hotels and apartments.
9	Quality assurance; testing the activities for proper functioning of the system
10	Launch and maintenance; launching app and maintaining the working of the system
Project Success criteria: A running application guiding users to move correctly, saving time, physical hard work and resources of users to find rooms. To provide an online website and an open source application for smartphones that can be freely installed and used.	
Assumptions, Risks and Obstacles: <ul style="list-style-type: none"> • Runtime requirements • Lack of Resources • Lack of time 	
Organization Address (if any):	
Type of project: <input type="checkbox"/> Research <input checked="" type="checkbox"/> Development	
Target End users: Demand side: General public including Tourists, Travelers and Paying Guests Supply Side: Hotel owners and landlords who want to rent their rooms and apartments.	
Development Technology: <input checked="" type="checkbox"/> Object Oriented <input type="checkbox"/> Structured	
Platform: <input checked="" type="checkbox"/> Web based <input type="checkbox"/> Distributed <input type="checkbox"/> Desktop based <input type="checkbox"/> Setup Configurations <input checked="" type="checkbox"/> Other (android and iOS)	
Suggested Project Supervisor: Ma'am Madiha Khalid	
Approved By:	
Date:	

1.4 Project Goals & Objectives

- To create a network, connecting paying guests with hotels and landlords enhancing affective communication.

- To develop a website and a mobile application where users can book a room in minutes by just tapping a button.
- To provide a platform where travelers/tourists can find all nearest places, find all the possible routes to the nearest destinations and get authentic navigations.
- Real time availability and guidance of points of interest is must.
- Increase revenue for the hotels and landlords, increasing traffic to their destinations.
- Promote tourism by making tourism concise and easier to access.
- Become experts in the technologies being used in the development, design and planning of the system.

1.5 High-level system components

User management

- Registration
- Authentication
- Rights and access (general user/ hotel or landlord/ admin)
- History maintenance

City Guide

- Display points of interest (Map view and list view)
- Describe points of interest
- Categorize points of interest
- Customized search
- Location guidance
- Reviews and feedback

Stay Guide

- Hotels and landlords' profiles
- Advertisement posting
- Customized/ filtered search
- Contact options
- Booking
- Reviews and feedback
- Complains management

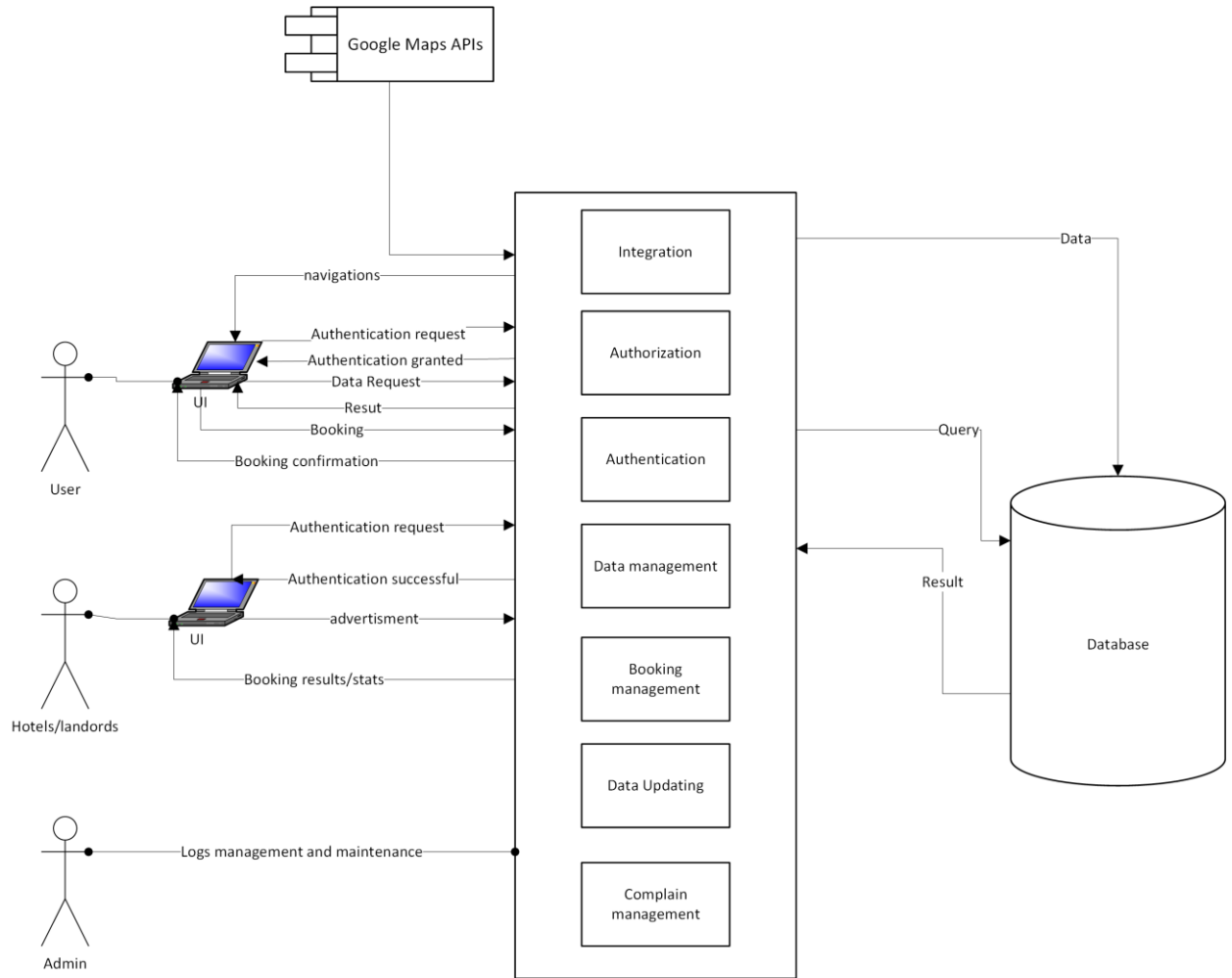
1.6 List of optional functional units

- Promotion and discounts for hotels and rooms
- Direct chat with landlords
- Integrated blogs/articles/stories relevant to the places being searched
- Multiple payment options (credit card, PayPal, etc.)
- Auto suggest the highest rated options and places for both stay and visit
- Guest mode for naïve/new users

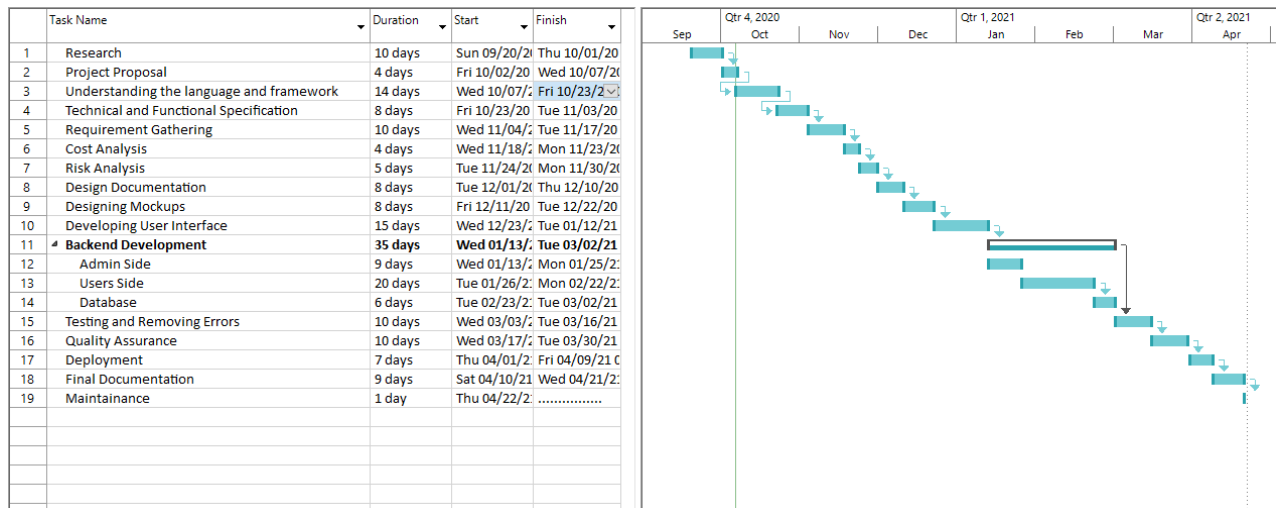
1.7 Exclusions

- Restaurant reservation feature
- Multiple tour and travel guides or agencies

1.8 Application Architecture



1.9 Gantt chart



1.10 Hardware and Software Specification

RAM 4GB minimum

2GB minimum available disk Space

1280×800 minimum screen resolution

Processor 1.0 GHz or above

Internet

Microsoft Windows 8/10 (64-bit)

Browser (Google chrome V85/ IE8/ MS EdgeV44)

1.11 Tools and technologies used with reasoning

Tools and Technologies	Reasoning
MS word	For documentation. Extreme availability and easy to use.
MS Visio	For flowcharts and diagramming. It is easy to use with built-in templates.
MS Project	For Gantt Chart. It's the best tool being used in the industry for project management plans.
React Native	For front End development. It is an open-source, cross platform framework. The core is JavaScript and is easy to learn and use.
Django REST framework	Using python as backend language for its powerful server-side development, latest technological advancement and acceptance, and simplest DB management.
SQL Lite	Database. It requires no maintenance or configuration. It is cross-platform, high on performance, reverse compatible, lightweight and portable.
Agile Development	Discovering requirements and developing solutions with collaborative effort of self-organizing, early and predictable delivery and transparency.