aclectics International

Project Proposal Review For:

EcleStay

A Travel, Accommodation and Experience Platform

By:

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Introduction

- ► Kenya is known for its diverse and appealing sites such as historic sites, landscapes, camping, cultural heritage and many more amenities which tend to attract more visitors and tourist to our country.
- These sites not only enhances tourist experience but also contribute to financial gain of the country hence there is need to have an accessible system to increase accessibility, integrity, security and efficiency.

Problem Statement

- Tourists experience various challenges such as:
 - unexpected climate
 - unfamiliarity with places
 - hostility from untrusted tour guide
 - tracing accommodation points
 - means of transport
 - social amenities and cultural heritage
- These problems has raised concern to the wider community and thus a solution has to be implemented to keep the numbers up.
- The proposed system should enable them to have reliable access towards areas of their preference using available and preferred services set to satisfy their needs ensuring integrity & security.

Objectives

- Enhance tourism experience by creating a user friendly system by enabling tourists to navigate and explore different services of their preference such as accommodation , tourist attraction sites using google maps.
- Ensuring security of tourists by assigning them trusted tour guides and integrating different means of communication in case of an emergency following their locations.
- Providing tourists with up to date information based on weather and climate changes of the country.
- Creation of a platform that enables tourists to search and see available transport and select according to their preference based on place, distance and accessibility.
- Notify tourists about the cultural events being held during the period of their visit.
- ► Providing tourists with camping areas available giving details on facilities, accessibility and available options for booking the areas .
- Enabling the tourists to get information about the climate change and give them details on areas they can access during different kinds of seasons.
- Giving the tourists the opportunity of using google maps to be able to locate their current location and areas they have interest in visiting.

Scope

- The study is carried out to enhance tourist experience by enabling users to navigate through the system and find information on accommodation services and transport, options for food, details on camping areas, available events and concerts, different means of transport, integrated google maps and climate change.
- The functional requirements include the following:
- Accommodation Search Bar, Food options, Calendar and events, Weather and Climate, Maps, Transportation, Admin and User Accounts.
- The non functional requirements include: Security, Accessibility, User Interface and Maintenance of the system.
- The aim is to develop a fully functional and user friendly web application that satisfies both the functional and non functional requirements of the user. The documentation also provides guidance on the accessibility and efficiency for the users of the system.

Feasibility Study

- The proposed project of developing an online services booking system is feasible.
- The technology needed to develop such a system, including web development frameworks and database management systems, which are readily available and well-documented.
- ► Furthermore, the project plan will outline a clear path from requirements analysis to system deployment, suggesting that the project can be completed within the given timeline.

Justification

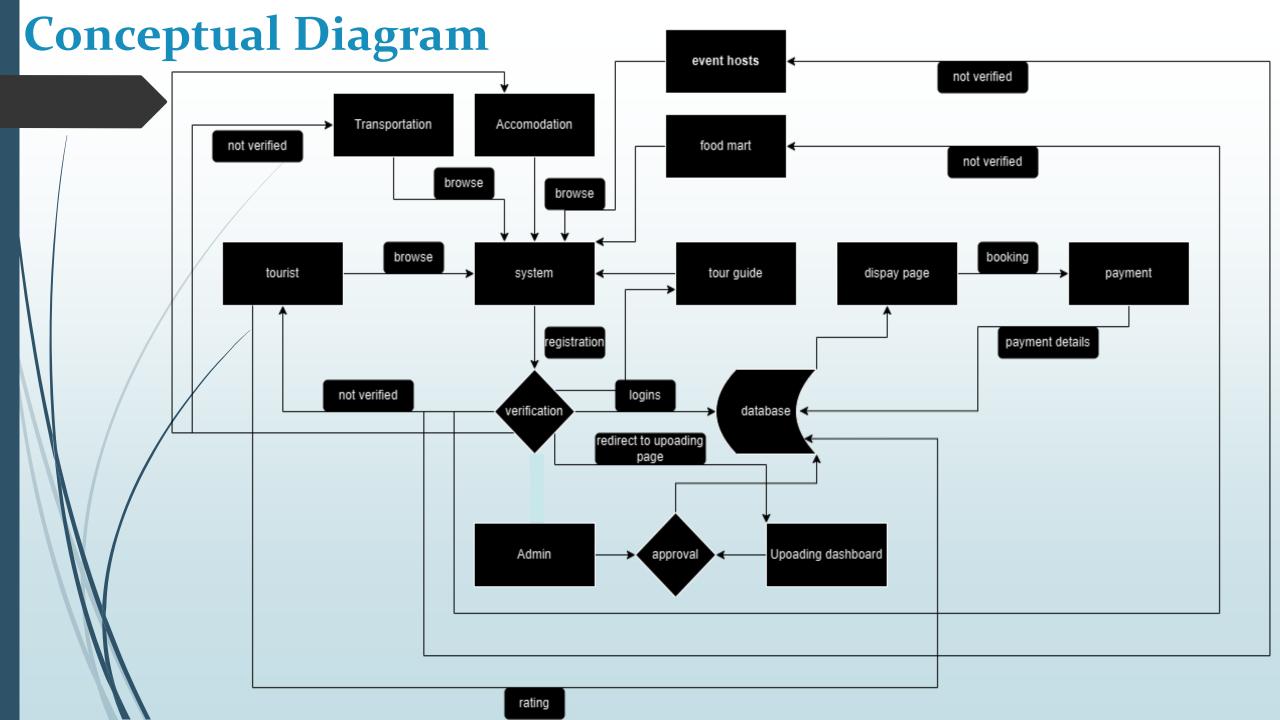
- The development of an online booking system could greatly enhance its integrity, accessibility, security and efficiency in the following ways:
- Tourists can book for the services from the comfort of their home or nearby cyber services providers.
- Service providers will be verified using various parameters such as license number & health permit confirmation from legal institutions and through reviews, ratings and references from customers and recognized individuals and institutions.
- Booking and payment with confidence and at a streamlined and low cost
- The project aligns with Eclectics goals, rules and formalities of digitizing services.

Literature Review

- After conducting a thorough research on various known systems offering services close similar to ours, reviews and interviews from tourists, we came up with findings and new ideas that we will implement in our systems that could possibly improve the quality and integrity of the services are not offered on other similar systems.
- On march 2024, a tourist from America visited Kenya to view the 14 falls but on arrival, the place was flooded, accessing the site was difficult and he could only see a big waterfall because the fourteen folks merged into one fall. He confronted his host for not notifying him about the weather and the disjunction of the falls he was interested in seeing.
- In October 2022, two Indian tourists and in 2015 a British couple were setup by their local driver in collaboration with hotel management and kidnapped for ransom.
- Similar systems, Airbnb, Vrbo and booking.com do not offer variety of services such as local transport depending on your location, local food matts(kibandaski), tour guides and other underrated services which tourist enjoy visiting.
- see solution next page

Proposed solution

- Provide current weather and climate update in the area of your preference as well as analyzing and giving report on the weather trend over a given time
- ► Allow tour guides, motorists and local taxi earn with us by exposing their services through our site.
- Verify every registered business service through various ways such as confirmation of license numbers, health permit and others with legal or registry body.
- One shall be referenced by former customer or a recognized individual/institution



Tools

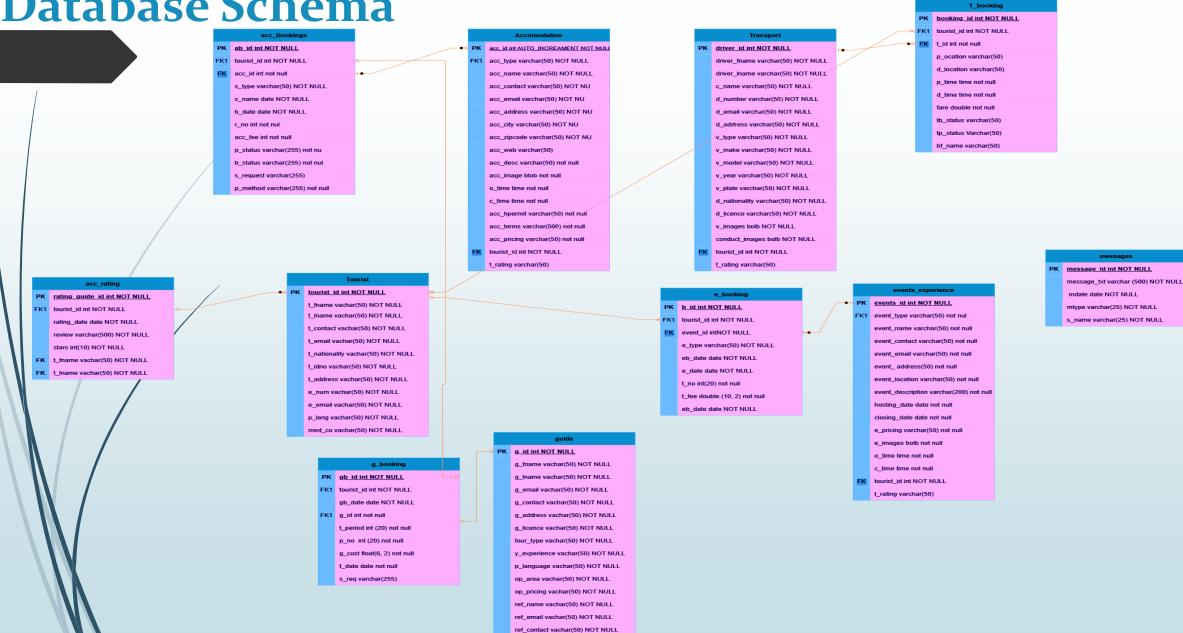
■ Tools:

- Backend PHP (YII 2)
- ► Front-end- ReactJs
- Graphics design Draw.io, figma, favicons
- Styling Tailwind CSS
- Database MySql
- APIs Testing- Postman with Newman
- Server to internet Ngrok
- Deployment –infinity free
- Team meeting Microsoft Teams
- **■** Code sharing Github
- Collaboration –VS code live share, github code space
- Project Management Trello

Modules/Components

- **■** Registration Module
- **■** Verification module
- **■** Approval module
- **■** Uploading module
- **■** Booking module
- **■** Payment module
- Notification, message, review and feedback module
- Help and support module

Database Schema



con_image bolb NOT NULL tourist_id int NOT NULL t_rating varchar(50)

messages

Project Timeline

- Phase 2: System Design (May 20, 2024 may 25, 2024)
- Duration: 1 week
 - **■** Tasks:
 - Create wireframes and UI/UX design
 - Design API endpoints and backend architecture
 - Review and finalize design with stakeholders
 - Phase 3: System Development (may25 July 10th)
- Duration: 5 weeks
 - **■** Tasks:
 - **■** Front-end Development
 - Set up React and Vite environment
 - Develop UI components using Tailwind CSS
 - Implement navigation and routing with react-router-dom
 - **■** Create login and sign-up forms
 - Dezvelop pages for accommodation, transport, events, and other services
 - Integrate with map and weather APIs

Cont..

- Back-end Development
 - Set up Yii2 environment and configure the database
 - Implement user authentication and authorization
 - Develop API endpoints for booking, payments, and user management
 - Create admin panel(Back Office) for approving transport providers, tour guides, and hosts and editing system data.
 - Implement data validation and error handling
 - Testing & Deployment (July 11 July 20)
 - Testing
 - **■** Tasks:
 - Conduct unit testing for front-end and back-end components
 - Perform integration testing to ensure all components work together
 - Execute user acceptance testing (UAT) with a group of beta testers
 - Identify and fix bugs and issues
 - Optimize performance and security

Cont..

- Deployment
 - Tasks:
 - ■Set up production environment
 - Deploy front-end and back-end applications
 - **■** Configure domain and SSL certificates
 - Perform final system testing in the production environment