**HiLCoE**

SCHOOL OF COMPUTER SCIENCE AND TECHNOLOGY

**SENIOR PROJECT (CS 500)**

**Prepared**

**BY**

**BELETE SHIFFERAW JJ4756**

**MIKIYAS TEFERI DX7543**

**SOLOMON TSIGE ZT6647**

**A research proposal submitted to HiLCoE school of computer science and technology in partial fulfillment for award of bachelors in computer science**

**TABLE OF CONTENTS**

Introduction …………………………………………………………………………….…. 1.0

Background ………………………..……………………………………………………….1.1

Problem statement ………………...………………………………………………….…..1.2

General objective …………………..…………………………………………….…..……1.3

Specific objective………………………………………………………………….…..…1.4

Scope of the project …………………………………………………………….…..…….1.5

Limitations…………………………...…………………………………………..…..……..1.6

Methodology/Approach…………….……………………………………………..………1.7

Significance and beneficiaries ………………………………………………......……..1.8

Task break down ……………………………………………………………………..…..1.9

Project schedule and timeline …………………..……………………………..…….1.10

References …………………………………………..…………………………….………1.11

**CHAPTER ONE**

**INTRODUCTION**

1. **Introduction**

This chapter includes the background of the study, statement of the problem, purpose of the study, research objectives, and research questions, scope of the study and significance of the study.

* 1. **Background**

We are senior students of HiLCoE, School of computer Science and Technology. The focus of our project, for partial fulfillment of the award of bachelor degree in computer science, is a web based Integrated Wedding Event Organizer application. The reason that draws us to work on this project is the lack of such system in a place where many weddings are organized and celebrated every year. In every wedding there are dozens of different business types that are involved to ensure a well-organized and memorable ceremony. Almost all, wedding events need the support of others who are in the business of event organizer. Weather it is big or small scale most of wedding events can’t be run without the support of event organizer companies.

* 1. **Problem statement**

To throw a single wedding event there are many participants who are specializing indifferent part of the wedding event. To name some of them: Car renters, hall renters, hotels and resorts for Honey moon, Djs or Azmaries, wedding equipment renters such as tent, chairs and tables, catering service providers, Decor companies, Beauty Salons, wedding cloths sellers and renters, Photo and video studios, singers and Dance crew, event organizing professionals, marriage consultancy companies, real estate companies. All most, all wedding events are thrown with the involvement of many of the above listed participants. The only difference in each wedding events is the budget; not the number of participants who involve to throw the wedding. However, the selection and identification of companies and personnel that provide the services mentioned is one of the most challenging tasks that could ensure that the day is successful or become a total disaster.

Anyone, who wants to throw a wedding event, must address and get in touch with those dozens of participants who provides services for the wedding event. This is really frustrating in terms of time and costly financially. However, Especially to the family who throws the wedding event to have the moment equipped with memorable happiness and cheerfulness, the preparation for most brides and groom are a source of frustration mostly because the identification and selection of service providers are a time consuming activities and there is no centralized place where they can locate such service providers and also be able to gather information about the quality of their service from past customers.

* 1. **General objectives**

The purpose of this study is to develop a better system to provide accessibility by creating a bridge between participants of wedding event. Wedding event throwers will able to get centralized access, in their comfort zone, to the service providers without having to go physically to their address and evaluate based on previous customers comments. Service providers are evaluated by their clients/customers based on the service they gave. So the service providers will maximize their quality of service to get the higher service rate so they may able to maximize their chance of getting selected by the upcoming wedding throwers. This creates positive competition between service providers.

* 1. **Specific objectives**
* Service providers advertise their product or services
* Centralized and integrated search engine to look for service provider based on budget, service type, business category, rate and/or reputation, address location.
* Wedding thrower customers will comment and rate the service providers for the service they get.
* The bride and the Bridegroom can search and contact wedding event planners.
* Service providers will able to create a page for their company.
* To give geographic location using map.
* Tip in wedding event planning
  1. **Scope of the project**

The scope of the project is to enable customers identify and choose best service providers during their wedding preparations through the following processes.

* Register service providers

The system will register service providers and allow them to have their own account to administer for the specific service they provide.

* Classification of service providers

There are many service providers for the same product/service therefore by categorizing them within a similar group it will make it easier for customers to identify service providers of a particular product/service.

* Allow service providers advertise

Service providers will be able to advertise the services they provide within the website

* Allow customers comment and rate service providers

Customers will be able to comment and rate the service providers based on their criteria which new customers can use to make their choices or ask for more information from other past users.

* 1. **Limitations**
* Requires the internet and the user to computer literate.
* Requires initial manual advertisement to get service providers onboard.
  1. **Methodology/Approach**

The following methodologies will be used

* Analysis and design
  + Using UML (Unified Modeling Language)
* Programming Tools
  + Asp.net MVC with MySQL database
* Documentation Tools
  + Microsoft Office
  + Microsoft Visio
* Other tools
  + Github
  + Git
  1. **Significance and Beneficiaries**

The system will benefit both service providers and customers looking to have a wedding, service providers will have a place to market their product/service whereas customers will be able to select from a number of choice of service providers without having to waste time moving from place to place.

The system has a valuable significance in assisting customers identify and evaluate service providers based on previous customers’ comments and rating so that they make targeted physical approach saving them time and energy.

* 1. **Task breakdown and Feasibility analysis**

Below is the budget we've estimated based on the scope of services outlined earlier in this proposal, if you have any questions about our pricing or need to increase or decrease the scope of work, please leave a comment and let us know.

|  |  |  |
| --- | --- | --- |
| No. | Task | Deliverables |
| 1 | Project proposal | Proposal document |
| 2 | Requirement analysis and document review | * Understanding the business * Understanding existing trend * Proposed system * Function definition * System functionality * Use case diagram * Sequence diagram * Class diagram * User interface |
| 3 | System design | * Design goal * Decomposed system * Persistent database |
| 4 | Object design | * Packages * Class interfaces |
| 5 | Implementation coding | Code of the functionality |
| 6 | Evaluation | * Accuracy of the classification * General recommendation and conclusion |

**Planning and requirement analysis**

**Requirement gathering and organizing**

* Interviews
* Surveys
* Domain analysis
* Prototyping
* Observation

### Requirement validation and Categorizing

Here requirements will be categorized depending on their importance under the following category. And then each requirement will be validated for their practicality.

* Must Have
* Should have
* Could have
* Wish list

## Requirement specification

The requirements will be further classified to the following two classifications.

* Functional requirement
* Non-functional requirements

## System Architecture Design

* Requirements will be reanalyzed
* Use case will be defined
* Processors/Modules will be identified
* OS and hardware selection will be done
* Each requirements will be assigned to individual processors/modules
* Sequence diagram will be defined at processor level
* Back end user interface will be designed
* Front end user interface will be designed
* Database will be designed
  + Entity diagram will be constructed

## Implementation

* Divided in modules/units
* Coding

## Integration and Testing

* Functional testing like unit testing, integration testing, system testing, acceptance testing will be done.
* Non-functional testing will be tested

## Maintenance

* 1. **Project schedule and Timeline**

To complete the work outlined in the project scope, we'll need approximately 12 weeks from beginning to end, depending on when we receive feedback at each milestone. Upon signing the proposal we are prepared to start work immediately.

|  |  |
| --- | --- |
| Phase | Number of days |
| Project proposal | 14 days |
| Requirement analysis and document review | 16 days |
| Analysis | 30 days |
| Database design | 5 days |
| Implementation and coding | 35 days |
| Testing | 7 days |

* 1. **References**
* <https://www.eventhelix.com/RealtimeMantra/Basics/architecture_design.htm#.Wv7zWppRVQI>
* <https://www.tutorialspoint.com/sdlc/sdlc_overview.htm>
* <https://www.tutorialspoint.com/software_engineering/software_requirements.htm>
* <https://www.visual-paradigm.com/guide/requirements-gathering/requirement-analysis-techniques/>