CAT404 – Software Engineering Major Project

Project Proposal

Event Planner System (Subsystem 1: Data Management)

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Abstract

Every event services have their own platforms for booking, whereas some local businesses only rely on social media to deal with customers. Services necessary for the ideal birthday party or weddings are frequently scattered; each has its own platform for booking services that requires users to sign up several times across different sites. Therefore, the Data Management Subsystem in Event Planner System (EPS) is a web-based system that will address this issue to allow users using a single platform to get various of event's services. Data management subsystem will be implemented by having a registration feature that enables users to register and login before utilizing the EPS. This subsystem also allows vendors to prove their services through catalogs. By the end of this project, Data Management Subsystem must achieve its objectives of assisting users in organizing ideal events, assisting users in comparing event services in terms of quality, quantity and feedback and providing support to vendors in promoting their services in order to increase sales.

Keywords: Data Management Subsystem, Web-based system, Single platform

1. Project Background

Living in this era, everyone wants to celebrate each moment of life with their family and friends. Birthday celebrations and weddings always need a proper preparation,

from the foods to the decorations to the photographers. Services offered for an ideal event are usually scattered, which organizers must search for each service individually. The organizers of an event might explore a variety of services, including catering, decorations, photographers and gifts. It can be challenging to compare the services required in terms of quality, quantity, and user feedback because certain events are required for all of the services. Time constraint is a major issue for the existing event management system, where users need to compare each service provided from several platforms. Furthermore, users must also register and login to several different websites in order to make reservations for the services that make it difficult to keep track of their orders. Thus, a project called Data Management Subsystem under Event Planner System is proposed to ensure user data is stored safely, make it easy for users to analyze services supplied, and allow users to use a single platform to get various services.

Data Management Subsystem will address current event planner systems issues in order to provide users a high-quality service. Therefore, in order to provide all services from various categories of services in one platform, this project will enhance authentication features, where users who want to utilize or book services offered need to register and login into the system before utilizing it. This feature will verify each user's profile and ensure they are all verified, which also helps to cut down on scammers. Users can update their profiles after registering in accordance with their status as user or vendor. There is also a feature that allows vendors to promote their catalogs as part of initiatives by uploading past projects to their main page. This feature will assist users to review services more quickly and efficiently in order to compare them to others. Furthermore, there is a help desk feature that allows users to ask questions to administrators via chat if they encounter any issues while using the system.

2. Problem Statements

The existing system for organizing weddings, birthday parties, and baby showers only focuses on specific services. For instance, the system only provides decoration or catering services, which the users need to search for multiple services from various platforms. Thus, the users need to register or log into several sites,

making it challenging for users to keep track of accounts registered due to having multiple login credentials. However, Event Planner System (EPS) will offer a variety of services on a single platform, including foods, facilities, decorations, inclusive event packages, and photographers. This effort will reduce user's effort to find services and ensure users' data are stored safely.

Besides, local businesses only use social media platforms to deal with customers because it is expensive to maintain an independent system. This action is incredibly risky because of scammers. By having a Data Management Subsystem, it will reduce this issue because every user must register their identification with the system in order to utilize it and it will authenticate them. Hence, every user and vendor will deal with authentic identity and minimize loss.

3. Motivation

In Malaysia, there are various festivals that are celebrated, and each one is celebrated with a unique set of cuisines, decorations and preparations. The number of events held in Malaysia may expand as the world slowly recovers from the COVID-19 pandemic and everyone progressively comes back to celebrate them. Furthermore, finding a great photographer is often a major difficulty for events that need one. This is due to some wedding photographers being disrespectful to their clients. It is proven when they do not show up for client's big days, and miss many engagement shoots as well according to reports compiled by CBS News DFW in Collin County. [1] Similar problems can occur to brides who hire a service for wedding decorations. Some decorators have a tendency to con clients using photos and a great deal, however the results are not as good as anticipated. As a result, a Data Management Subsystem is proposed that strives to satisfy users by providing vendors a safe platform, ensuring users have a good experience in booking services, and also minimizing loss from the viewpoints of customers and vendors.

4. System Objectives

The main objective of this system is to create an Event Planner System (EPS). This sub-system is focusing on data management. Therefore, the sub-system should be able to:

- Manage users of the system (admin/client/vendor).
- Manage the services offered by the vendor and feedback by the clients.
- Manage the complaint/issue raised by the clients.

5. Proposed Solutions

Event Planner System (EPS) is a web based system that will be developed to achieve the objectives of this project. There are three main user roles that are involved in EPS, which are clients, vendors and admin. The administrator is responsible for managing user access to the system, whereas vendors will use the system to sell their services and attract clients. The client is the primary user of the EPS to search for and book any services available.

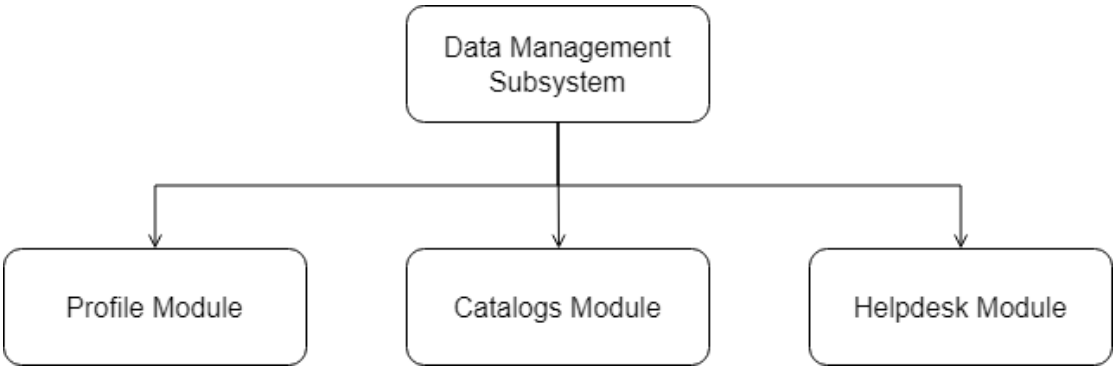

Figure 1 shows the Module Diagram of Data Management Subsystems

Data Management Subsystem is responsible for storing users data and delivering some features to enhance user experience when searching for services to organize events. This subsystem is made up of three modules that deliver system functionality: the profile module, catalogs module and helpdesk module. First, the profile module manages each user's account. Each user of the Event Planner System must register and login before utilizing the system in order to book any services. Thus, the profile module will allow each user to create an account by filling out necessary information.

After creating an account, users can access all features offered inside the system. Authorization process for accounts created also will be implemented inside this module. Second, the catalogs module offered the vendors to promote their services by displaying photos or videos on their main page inside the system. This feature will enable vendors to upload any media related to their past projects to their page in order to prove their skills. Third, the helpdesk module will allow administrators to engage in an open conversation with users about any issues that arise. Admin can respond to user questions, and users can provide feedback on the assistance provided. Inside this module also will have a listing of common questions regarding the system for each user to refer and follow.

The Software Development Life Cycle (SDLC) method is used to develop the Data Management Subsystem to ensure that the system is reliable and meets the requirements gathered. This process begins with software specification, which includes requirements gathering and analysis. For this project, survey, brainstorming and user observation techniques will be used to compile system requirements. Then, software design is employed to construct the system's architecture, interfaces and detailed design. After that, software development in which the requirements and design are compiled to integrate a complete system based on the users' activity flow. This system will be developed with HTML, CSS and ReactJs. Visual Studio Code and Github will be used as coding and compiling mediums, while Firebase will be used as a backend tool. Software validation and verification is the phase in which the system is tested to ensure that it meets the project's requirements and the objectives. Finally, software evolution and maintenance are adapted to ensure that the system remains operational as well as provide good services to users.

6. Benefits / Impact / Significance of Project

This proposed project will allow users to only use a single platform to search for all kinds of services required for their ideal events, with users only need to register on this website in order to access all the information. It is more efficient because it saves user's time comparing services and analyzing services based on their budget. Besides

that, this one-stop-center platform offers a huge opportunity for vendors, mainly locals, to boost their sales by providing a medium for them to promote their services. There is a feature that allows vendors to update their works in catalogs by uploading photos or videos to attract clients and demonstrate their excellent services. Other than that, this project will only allow certified and verified vendors to promote their service in order to reduce low quality or fake services. Thus, the significance of this project is to ensure user satisfaction so that they can have memorable events in their life.

7. Uniqueness of Proposed Solutions

This project promotes efficiency towards the users by offering them a one-stop system that provides multiple services on a single platform. Thus, users are able to search a variety of services for the events they desire on a single website. This enables them to compare prices, qualities, and types of events faster and easier. From a vendor perspective, this project will save their cost of having an independent system and enhance their sales.

8. Expected Outcomes

By the end of this project, Data Management Subsystem will have these outcomes:

- Profile Module
    - The admin/client/vendor can register an account.
    - The admin/client/vendor will be able to login to the system.
    - The client/vendor can update the profile page.
    - The system will store all users information.

- Catalogs Module
    - The vendor will be able to upload photos or videos related to past projects as service catalogs.
    - The clients can review service details.
    - The system will store all details of the service catalogs.

- Helpdesk Module
    - The user can ask admin any questions related to issues encountered.

- The admin will be able to reply to users' questions.
- The user can review a set of questions related to the system.
- The system will be able to list all questions frequently asked by users.

9. Status of the Project

This proposed system is entirely new and has never been developed before. All the application flow design, interfaces and features will be newly created.

10. References

[1] Nicole, N., Kelsy, M. (2022, 12 October). BBB issues warning about wedding photographer based in Collin County. Retrieved from https://www.cbsnews.com/dfw/news/bbb-issues-warning-about-wedding-photographer-based-in-collin-county/ .

11. Appendix

Activities	Start	Finish	Duration	Oct-22		Nov-22				Dec-22				Jan-23				Feb-23				Mar-23				Apr-23				May-23				Jun-23				Jul-23	
				W3	W4	W1	W2	W3	W4	W1	W2	W3	W4	W1	W2	W3	W4	W1	W2	W3	W4	W1	W2	W3	W4	W1	W2	W3	W4	W1	W2	W3	W4	W1	W2	W3	W4	W1	W2
PROPOSAL																																						
Initial Proposal Preparation	20/10/2022	6/11/2022	2w																																				
Proposal Submission	6/11/2022	6/11/2022	1d																																				
Project Proposal Vetting	7/11/2022	20/11/2022	2w																																				
SYSTEM REQUIREMENTS AND DESIGN																																						
System Requirement And Design (SRD) Report	21/11/2022	25/12/2022	5w																																				
System Requirement And Design (SRD) Submission	25/12/2022	25/12/2022	1d																																				
System Requirement And Design (SRD) Presentation	26/12/2022	1/1/2023	1w																																				
System Design	2/1/2023	22/1/2023	3w																																				
Prototype Development And Testing	23/1/2023	26/3/2023	9w																																				
PROGRESS REVIEW																																						
Progress Review Demostration	3/4/2023	16/4/2023	2w																																				
FINAL PRESENTATION																																						
System Development	17/4/2023	28/5/2023	6w																																				
System Integration	29/5/2023	4/6/2023	1w																																				
System Testing	5/6/2023	11/6/2023	1w																																				
Final Report Preparation	12/6/2023	25/6/2023	2w																																				
Final Report Submission	25/6/2023	25/6/2023	1d																																				
System Demostration and Presentation	26/6/2023	9/7/2023	2w																																				

Figure 2 shows the Gantt Chart for this project.