



UNIVERSITY of GUYANA

Project Plan

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CSE 2101

Submission 1

Camp Kabouyak Forest Garden
Management System
Project Plan

Submission 1

Group 8 Members

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Introduction

This document is to outline the development of a specific management system to keep track of bookings, reservations, and payments by visitors to Camp Kabouyak Forest Garden. The investor's vision is to transform a citrus farm into a Forest/Fruit Garden into an eco-tourist spot by maintaining more than 75% of the 60 acres plot in its natural state. This would allow for educational or fun adventures of Guyana's flora and fauna, streams, and rivers. While it would be the choice of the patrons to relax and or have fun by indulging in fishing, boat rides, or studying the natural habitat in a safe and secure environment, it would at the same time contribute to the green economy, support climate change, and provide economic returns to the investor.

The current management system being used at Camp Kabouyak is manual with little or no evidence of informed decision-making. In other words, actions are more or a reaction to a matter that is present itself. The lack of data affects data analysis and reports that are required for expansion and the overall development and growth of the business.

The objective of the development of the management system is to store relevant data as it relates to product availability, bookings made, and payment transactions for Camp Kabouyak Forest. which in turn would enable CKF to better manage the business and provide the information required for the expansion of the business with new products that are required by the eco-tourism market.

The approach to implementing this management system is guided by a linear process model that divides development processes into successive project phases, which is referred to as the waterfall model. The group agreed that the management system of CKF shall be completed within six months from the date of the requirement and planning, design, implantation, verification, testing, and maintenance. To reduce the risk of project delay and over-expenditure, each successive process will be allocated a defined completion time with rigorous monitoring on a daily basis to ensure the project's timely completion.

Project Organisation

Our team employs a projectized organizational structure in which the project manager is at the top of the hierarchy and has complete authority over all project decisions. The team members report directly to him or her, and all tasks are focused on the project.

Designation	Role on this project	Justification of role
Project Manager	Lead PM	The project manager plays a vital role in the project's development, with the primary task of overseeing the project from its inception to its formal delivery to the clients. The project manager will be in charge of coordinating stakeholder communication, tracking and reporting on deadlines and milestones, assigning tasks and resources, and overseeing the project's financial health. The project manager must be able to articulate the database solution's final vision and sell its benefits to all stakeholders. The project manager must maintain open lines of communication with the team and will motivate them throughout the system's development.
Project Sponsor	CEO	They will formally accept the proposal and provide the funds and power to study, plan, execute, and close the development of the project.

System Analyst	Business Analyst	Study the current system at Camp Kabouyak, compile the business requirements, and translate them into functional system design specifications that the development team can implement.
Engineer	Program Developer	responsible for developing mobile applications in accordance with the relevant mobile platforms
QA Expert	Quality Assurance	<p>They create quality assurance criteria and are accountable for ensuring that these standards, as well as the system's specified requirements, are satisfied. They are dedicated to enhancing software development processes and reducing manufacturing errors.</p> <p>Ensure the product meets all legal requirements.</p>
Data Entry Staff	User acceptance Testers	These are the company's actual end users who will test the system to make sure the customer approves of it. Testing will pertain to activities like scheduling appointments, recording payments, and updating personnel information.

Risk Analysis

Risk	Category of Risk	Affects	Likelihood of Occurring	Description	Reduction Strategy
Requirements Change	Technical	Project and Product	Low	There can be several requirements changed due to the business' vision to offer new types of services.	Verify each requirement with the stakeholder before the beginning of the project.
Under Budgeting	Budget	Project	High	Underestimating the scope of the project and improper tracking of the budget can lead to going over budget, especially since it would be a new kind of project for the project team.	Closely monitor spending throughout the project, ensuring funds are used as planned. Make allowance for additional expenses that can arise during the project.
Low Stakeholder Engagement	Operational	Product	Medium	Low communication with stakeholders during the project can greatly affect the success of the project since they	Frequent communication with stakeholders and having them be fully involved throughout the project.

				will also be also the users of the software.	
Inaccurate Time Estimation	Schedule	Project	High	The project group may underestimate the length of the project or the timeframe of each milestone for the project.	Ensure careful planning and research. Cater for Uncertainties that may arise during the project.
Unreliable Technology	Technical	Business	Medium	Due to the location of business operations, Internet connection may be unreliable resulting in significant downtime of the system.	Implement backup plans, such as temporarily using an alternative internet service provider to minimize system downtime.

Hardware and Software Requirements

Minimum Hardware Requirements

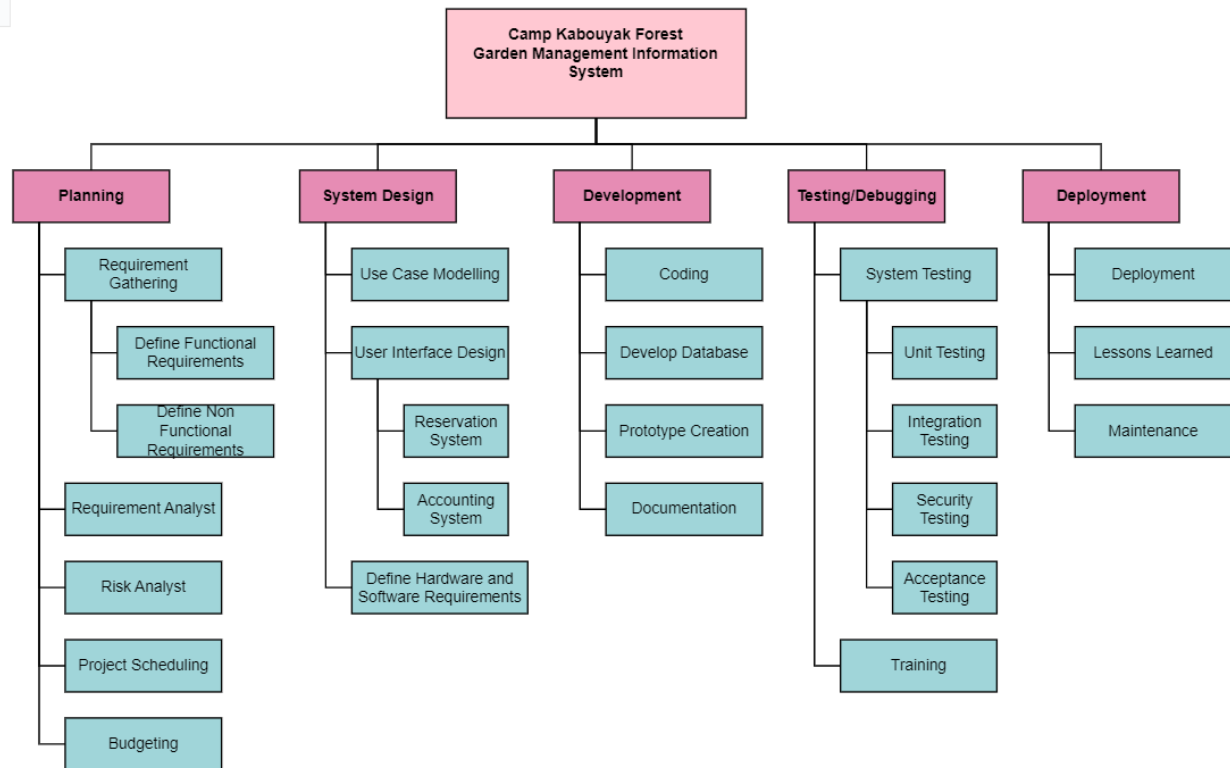
- Internet Connection
- Processor: Intel i3 - i5 (12th generation)
- Disk space: 1 TB
- Memory: 16 GB

Software Requirements

- Windows 10
- Any Latest Web Browser. (Preferably, Mozilla Firefox, Google Chrome)
- HTML, CSS, and Bootstrap for User Interface.
- Python as a programming language and Visual Studio as an IDE.
- MySQL Workbench and XAMPP for Database.

Work Breakdown

Camp Kabouyak Forest Garden Management Information System Work Breakdown



Planning	At this phase of the project a detailed analysis is carried out; this is to gather information and requirements necessary for the system, and the risk to the project is also highlighted. Additionally, the budgeting and the scheduling is done to give a timeline of the various subsystem of activities, their completion, and the cost.
System Design	The various ways in which the user needs to interact with the system are documented and depicted using appropriate diagrams, this is then used to design the different functionalities the system will use. This includes the user interface, accounting process, and reservation process.
Software Development	Coding and creation of the system and its database are done at this phase, the user interface is created and the system functionalities are created all documentation of the source code is done here.
Testing & Debugging	At this phase the functionalities of the system is tested in its environment to see if the system meet the requirements needed, issues/errors with the coding are also identified and rectified, training is also done for the personnel and the documentation is done.
Deployment	The final phase in the project, the system in integrated into operations of the company where periodic maintenance is done on the system to give optimal performance.

Project Schedule

Project Name: Camp Kaouyak Management Information System Project Schedule						2022		2022		2022		2023		2023		2023			2023																
						Oct		Nov		Dec		Jan		Feb		Mar			Apr																
						17-Oct	24-Oct	31-Oct	7-Nov	14-Nov	21-Nov	28-Nov	5-Dec	12-Dec	19-Dec	26-Dec	2-Jan	9-Jan	16-Jan	23-Jan	30-Jan	6-Feb	13-Feb	20-Feb	27-Feb	6-Mar	13-Mar	20-Mar	27-Mar	3-Apr	10-Apr	17-Apr	24-Apr	1-May	8-May
Project Start Date:						17-Oct-22		Weekending:																											
ID	Activity	Assigned to	Start	End	Days																														
1	Planning	Project Manager	17-Oct-22	3-Nov-22	14																														
1.2	Requirements Gathering	System Analyst, Client																																	
1.2.1	Define Functional and Non Functional Requirements	System Analyst	17-Oct-22	19-Oct-22	3																														
1.3	Requirements Analysis	System Analyst	20-Oct-22	26-Oct-22	5																														
1.4	Budgeting	Project Manager	30-Oct-22	3-Nov-22	4																														
1.5	Risk Analyst	Project Manager,	5-Nov-22	11-Nov-22	5																														
2	System Design	Software Developers	25-Nov-22	29-Dec-22	25																														
2.1	Use Case Modelling	Software Developers	25-Nov-22	30-Nov-22	4																														
2.2	Design User Interface	Software Developers	1-Dec-22	27-Dec-22	19																														
2.3	Hardware & Software Requirements	Software Developers	28-Dec-22	29-Dec-22	2																														
3	Development	Software Developers	8-Jan-23	28-Feb-23	37																														
3.1	Coding	Software Developers	8-Jan-23	31-Jan-23	17																														
3.2	Build Database	Software Developers	3-Feb-23	17-Feb-23	11																														
3.3	Develop prototypes for testing	Software Developers	18-Feb-23	26-Feb-23	5																														
3.4	Documentaion	Software Developers	27-Feb-23	28-Feb-23	2																														
4	Testing/Debugging	Software Developers, Testers	3-Mar-23	13-Mar-23	7																														
4.1	Unit Testing	Software Developers	3-Mar-23	6-Mar-23	2																														
4.2	Integration Testing	Software Developers	7-Mar-23	9-Mar-23	3																														
4.3	Security Testing	Software Developers	9-Mar-23	10-Mar-23	2																														
4.4	Acceptance Testing	Software Developers, System Analyst, Data Entry Staff	12-Mar-23	15-Mar-23	3																														
4.5	Training	Software Developers, Data Entry Staff, CEO	20-Mar-23	22-Mar-23	3																														
5	Deployment		24-Mar-23	30-Mar-23	5																														
5.1	Deploy CFKG Information System	Software Developers, System Analyst,CEO	24-Mar-23	30-Mar-23	5																														
5.2	Project post-mortem	Project Manager	3-Apr-23	4-Apr-23	2																														

References

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Chien, C. (2020, April 9). What are the 10 biggest risks in software development? Codebots. Retrieved October 26, 2022, from <https://codebots.com/way-of-working/what-are-the-10-biggest-risks-in-software-development>

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