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Faculty of Science & Information Technology

TFB1033 Object Oriented Programming

Dr Nordin Zakaria



Group Name: **Kampung Innovators**

Student ID	Name	Course
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22010182	Nurul Fatihah Binti Rizwan	Information Technology
22010431	Nadzira Binti Ramli	Information Technology
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Project Description

The Kampung Manage Website is a sophisticated web-based application developed to address the operational challenges faced by small businesses and community organizations in rural Malaysian villages (Kampungs). Traditional practices such as paper-based record-keeping and manual task coordination often result in inefficiencies, errors, and difficulties in managing day-to-day operations. This platform aims to transform these processes by providing a centralized, digital solution that enhances productivity, streamlines workflows, and optimizes resource management.

Built using the Blazor framework, the Kampung Manage Website offers an intuitive and user-friendly interface equipped with essential features such as task management, project tracking, and client data management. Key functionalities include the ability to identify which employees are responsible for specific projects, monitor upcoming deadlines, and track task assignments. This enhanced visibility and accountability foster seamless project coordination and enable managers to make well-informed decisions efficiently.

Employees benefit from clear task allocation and assignment tracking, while managers gain tools to proactively identify and address potential bottlenecks, ensuring projects are completed on schedule. The task management system supports the creation, assignment, and monitoring of tasks, ensuring alignment with organizational goals. Designed for ease of use, the platform is accessible even to users with limited technical expertise, making it highly suitable for the Kampung context.

The Kampung Manage Website represents a transformative approach to business operations in rural communities. By improving task delegation, fostering accountability, and enhancing collaboration, it empowers small enterprises to achieve greater efficiency and adaptability. This platform is a critical tool for reducing errors, streamlining operations, and supporting the sustainable growth of rural businesses, positioning them for success in an increasingly digital economy.

Evaluation of the Blazor Platform

Blazor provides several notable advantages, including single-language development using C#, a component-based architecture that promotes modularity, and seamless integration with the .NET ecosystem. These features make it an appealing choice for building web applications. However, our experience with Blazor during the project highlighted significant challenges that impacted development efficiency and productivity.

One of the most persistent issues was difficulty connecting to Firebase, which frequently resulted in errors caused by configuration and dependency mismatches. Resolving these issues required extensive debugging and adjustments, consuming a substantial amount of time and resources.

Additionally, the development process was complicated by recurring logical errors that were both complex and difficult to diagnose. These errors often arose from intricate component interactions and human mistakes, such as overlooking small but critical implementation details. In some cases, resolving these problems felt nearly impossible without exhaustive effort.

Furthermore, there were instances where the project could not run at all, with no visible errors or clear cause. This added an extra layer of frustration, as it was challenging to pinpoint the root of the problem, often leading to hours of trial and error without progress.






Compounding these challenges was Blazor's steep learning curve, especially for developers unfamiliar with its architecture and lifecycle. The platform's debugging tools, while functional, proved insufficient for addressing intricate issues within component-based interactions, further slowing down the development process.

In summary, while Blazor offers powerful capabilities and integration benefits, our experience revealed several drawbacks, including logical errors, human error, Firebase integration difficulties, issues with running the project without errors, and the platform's overall complexity. These challenges made the development process demanding, resource-intensive, and at times, frustrating, underscoring the need for improved documentation, enhanced debugging tools, and better support for third-party integrations.


Team Contribution Statement

Team Name: **Kampung Innovators**

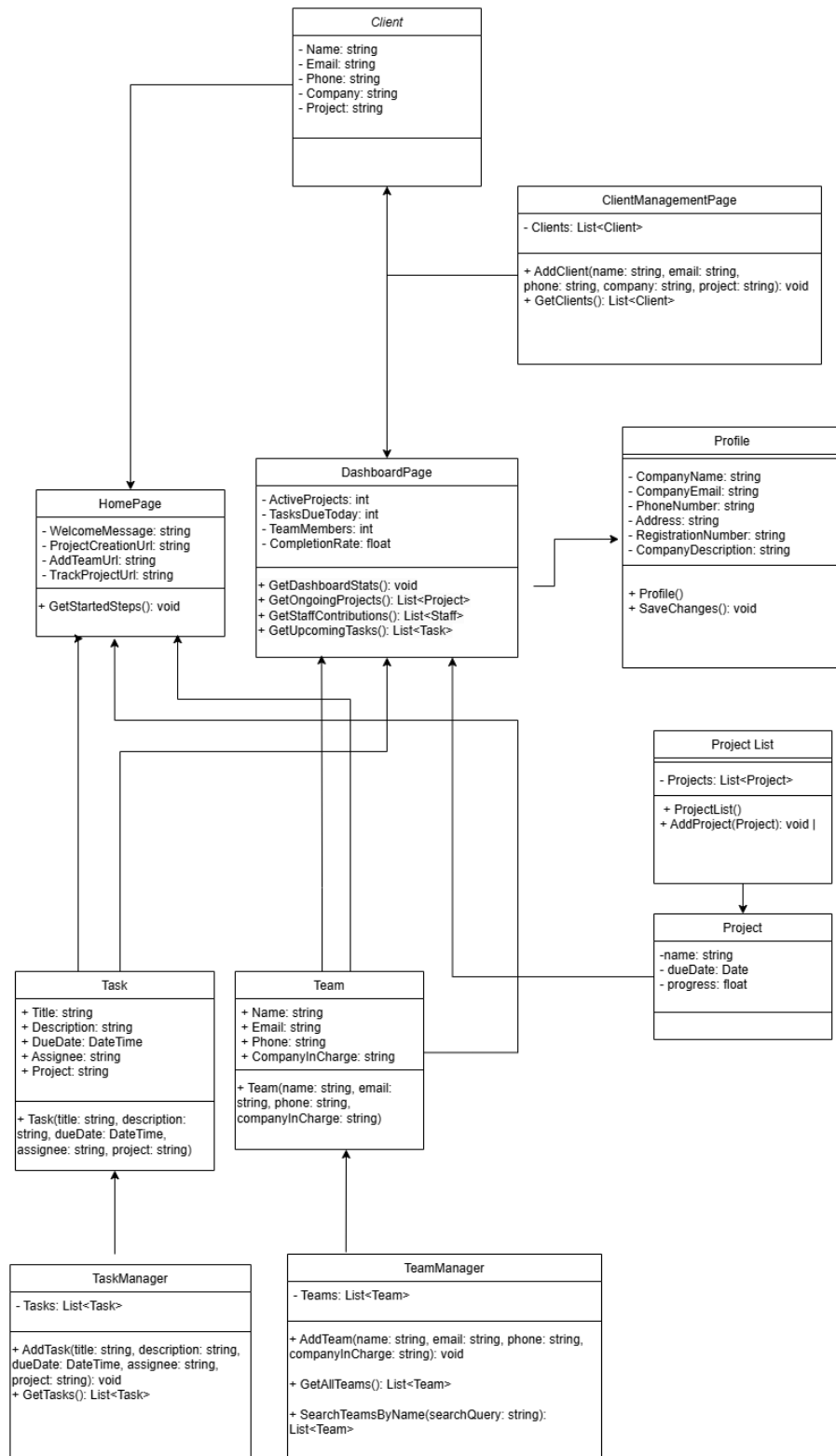
GitHub: https://github.com/nadziramliutp/KampungManage_ProjectMng.git

Name	ID	Task / Classes / Methods	Signature
Nurul Aishah Elyani Binti Azhar	22010394	Front-End	
Nurul Fatihah Binti Rizwan	22010182	UML	
Nadzira Binti Ramli	22010431	Back-End	
Sheldon Stephen	22008944	Documentation and Testing	
Nur Najla Alisa Binti Mat Suhairi	22010232	Debugging	

I, SHELDON STEPHEN (22008944), the leader/rep for Kampung Innovators hereby declare that the information provided is true and correct. understand that any wilful dishonesty or cover up may render the group submission invalid.

Signature:  Date: 21/11/2024

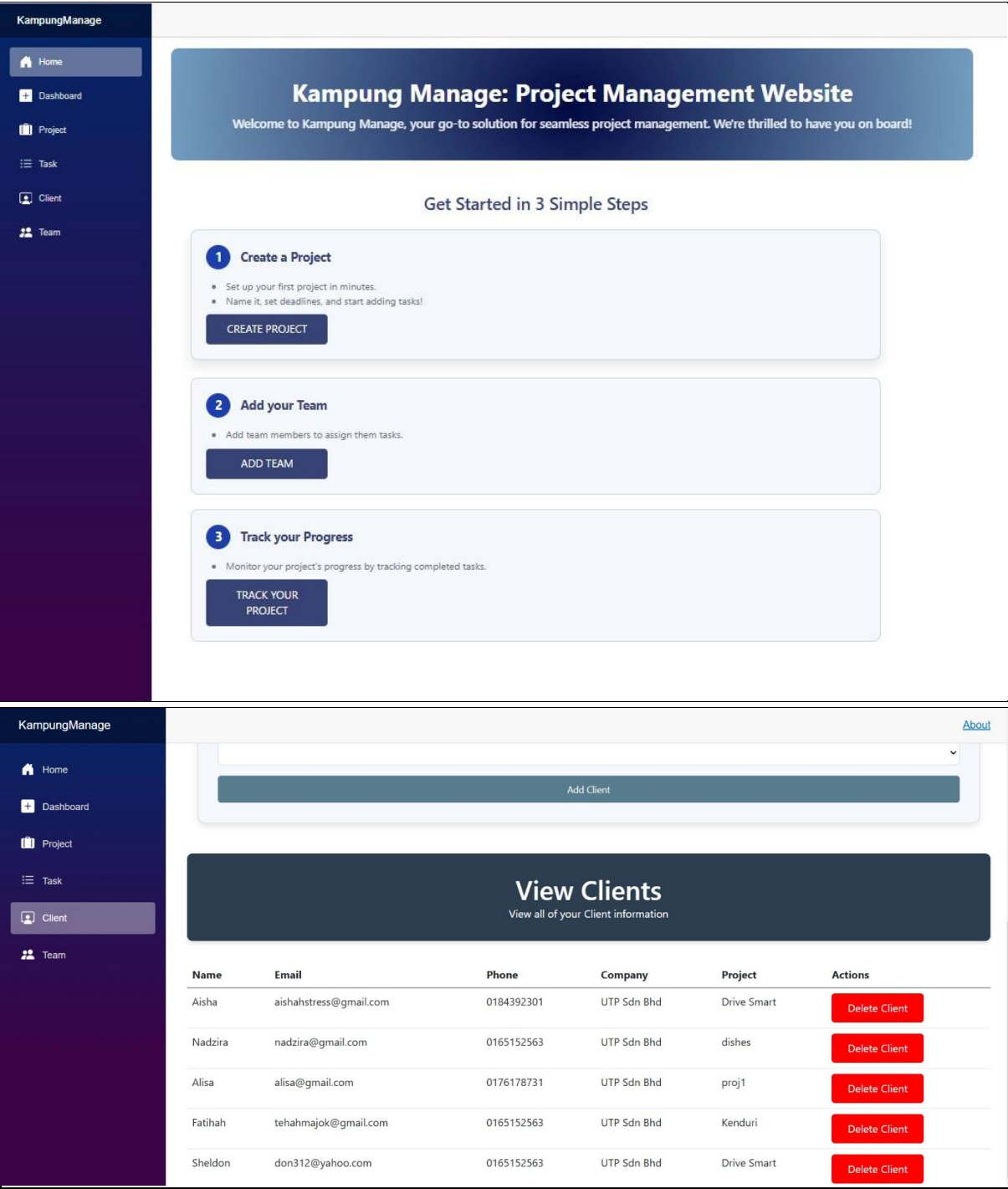
UML DIAGRAM



Link

KampungManage

Screenshots



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Nadzira

4

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Bawa air	cocktail	09112024	Nadzira	Makan makan	Delete Task
goreng cucur	tepung adabi	08022025	Nadzira	potluck	Delete Task
Goreng nugget	brand ayamas	08022025	Alisa	Makan makan	Delete Task
Masak Nasi Goreng	guna perencah nasi goreng cina	09122024	Nadzira	Makan makan	Delete Task
Masak nasi goreng	guna perencah nasi goreng cina	09122024	Nadzira	Makan makan	Delete Task
Report	buat	09122024	Sheldon	DTE	Delete Task

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Name	Email	Phone	Company	Project	Actions
Aisha	aishahstress@gmail.com	0184392301	UTP Sdn Bhd	Drive Smart	Delete Client
Nadzira	nadzira@gmail.com	0165152563	UTP Sdn Bhd	dishes	Delete Client
Alisa	alisa@gmail.com	0176178731	UTP Sdn Bhd	proj1	Delete Client
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Sheldon	don312@yahoo.com	0165152563	UTP Sdn Bhd	Drive Smart	Delete Client

