

# FINAL YEAR PROJECT PROGRESS & TIMETABLE MANAGEMENT SYSTEM

EDWARD SYMONS

001117-07-0067, 0132284@kdu-0nline.com, UOW Malaysia University College

## Abstract

Procrastination is one of the major struggles that can lead to negative impacts for many people in the modern world as the digitization process is becoming more influential on daily lives. Smart devices became crucial necessities in life these days which may invite unnecessary vulnerabilities for some people if they were utilised excessively without conscience and control. The timetable management system addresses the issues regarding procrastination through the development of effective timetables where users can improve as well as gain a healthy and productive lifestyle. Realistic approaches must be utilised for the development of the system to ensure it incorporates adaptability and flexibility for serving the current user requirements as well as future demands. Students are the major beneficiaries of the system as they will then be able to eliminate unnecessary procrastination from their lives which allows them to focus on the agendas that really matter.

## Problem Statement

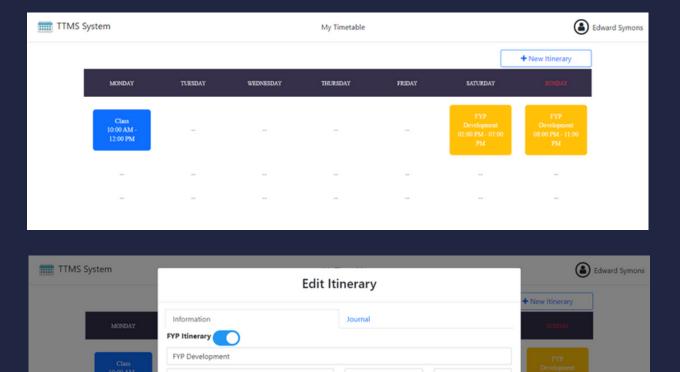
There is a problem with students following through with their timetables even after constructing them. Despite the availability of multiple timetable systems on the Internet such as Google Calendar and Outlook, these existing systems are generally catered for everyone and not specifically for students. They do not provide specific functionalities that would help prevent students from distractions effectively as they can still be easily exposed to distractions. This problem can negatively affect students especially in universities and colleges because many students struggle with having and following through a fixed timetable that would firmly allow them to be completely focussed on managing their Final Year Project throughout specific periods of time. Perhaps the development of a timetable system which can not only allow them to collaborate with their supervisors but can also allow them to set specific itineraries in the timetables with specific restrictions that would prevent them from distractions could help resolve the situation.

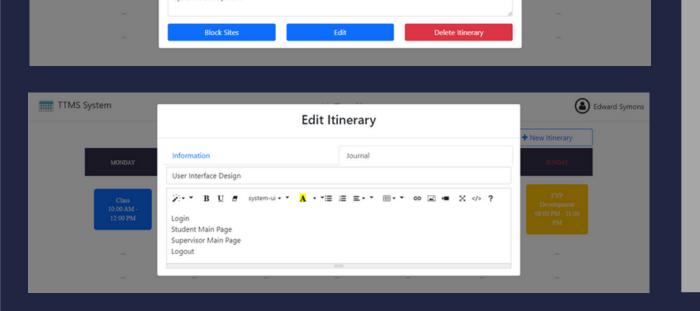
## Literature Review

Field of study	Scheduling and Timetabling     Calendar Sharing
Existing System Study	Timetable System Site Blocker Microsoft Outlook and Google Calendar
Problem Research	Procrastination     Effects of Smart Devices
Technical Domain	<ul> <li>Visual Studio</li> <li>Microsoft SQL Server</li> <li>C#</li> <li>LINQ-To-SQL</li> <li>JavaScript</li> <li>jQuery</li> <li>Ajax</li> <li>ASP.Net MVC 5</li> <li>ASP.Net Core 6</li> </ul>
Software Development Life Cycle (SDLC)	Waterfall Model     Spiral Model     V-Model     Iterative Model     Agile Model     Rapid Application Development (RAD) Model
Research Instrument	Experiment     Interview     Survey

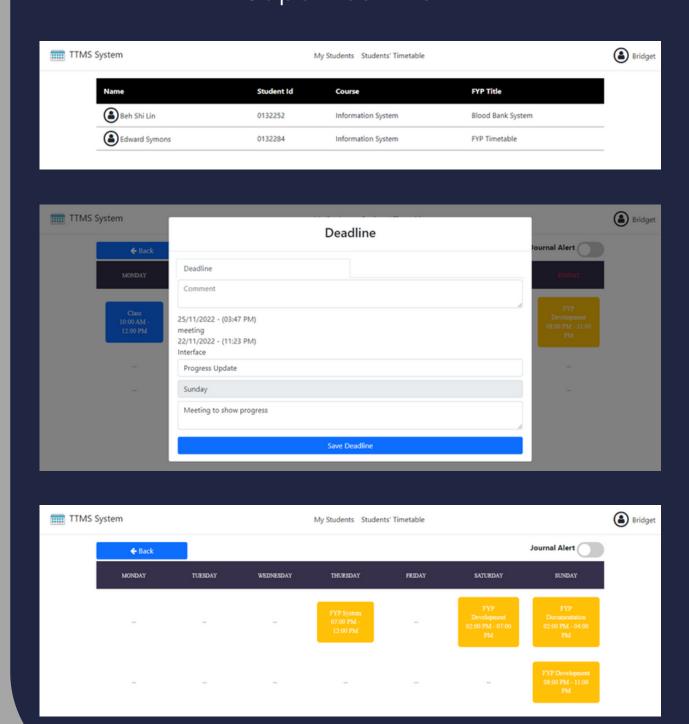
#### Results

#### Student View





# Supervisor View

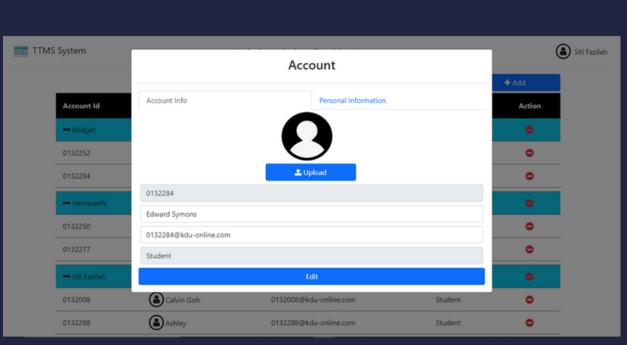


# Research Design Table

Research Questions	Research Objectives	Methods	Expected Outcomes	
How to incorporate the functionalities within current site blockers that can be implemented in the timetable system?	To investigate the concept and functionalities within current site blockers to be implemented in the development of a timetable system.	Literature     Review     Studies on     Existing and     Similar     Systems	List of domains and components for the system automation, generation, and organisation for the timetables	
How will the timetable management system help supervisors and their students collaborate in managing the Final Year Projects?	To design and develop a timetable management system with built-in site blocker which also allows students and supervisors to collaborate.	Design     Experimental     Testing	Design and develop a system prototype that is able to manage timetables and the itineraries.	
How does the timetable effectiveness of the timetable system help students to have a steady development on their Final Year Projects?  To validate the effectiveness of the timetable management system in restricting sites so that student can manage the progress of their Final Year Projects.		Survey     Questionnaire	Production of the enhanced system prototype that provides flexibility for users to construct customised timetables for effective progress on tasks.	

#### Administrator View

TTMS		,	Students Students' Timetable Manage Accounts		<b>+</b> Add	A Siti Faz
	Account Id	Name	Email Address	Account Role	Action	
	- Bridget	Bridget	bridget@kdu-online.com	Supervisor	0	
	0132252	Beh Shi Lin	0132252@kdu-online.com	Student	0	
	0132284	<b>E</b> dward Symons	0132284@kdu-online.com	Student	•	
	- Hemavathi	Hemavathi	hemavathi@kdu-online.com	Supervisor	0	
	0132250	Danessh	0132250@kdu-online.com	Student	0	_
	0132277	Kiara	0132277@kdu-online.com	Student	•	
	- Siti Fazilah	Siti Fazilah	siti@kdu-online.com	Admin	0	
	0132008	Calvin Goh	0132008@kdu-online.com	Student	0	
	0132288	Ashley	0132288@kdu-online.com	Student	•	_



# Research Methodology

The Agile methodology is chosen for development of this system as it implies an iterative and incremental approach for project management that provides assistance in continuously meeting the changing demands as well as requirements. It also incorporates multiple methodologies which are established from the concepts of continuous improvement, flexibility, transparency, and quality. The methodology essentially simplifies the responsibilities during the development process and provides greater control over the project. Agile methodology can be seen as a unique approach for software development as it emphasises on the delivery of quality and value for the clients essentially managing the completion of the project with specified constraints.

Factor	Agile Software Development	Traditional Software Development		
Flexibility	Flexible to changes throughout the development process	Does not welcome any change after the contract		
Approach	Iterative & Incremental Approach	Linear Approach		
Adaptability	Has the provision to adopt changes	Scope of the software is defined initially and no provision for adaptability later		
Iteration	Various iteration cycles based on sprints which are usually for about two weeks	Iterations are welcomed only once the entire product is developed and delivered		
Project Size	Can be used for project of any size	Recommended for small projects to minimize the margin or re-work or error		
Deliverables	Working product delivered after each sprint	Fully working and finished product delivered at the end		
Dependency	Limited dependency	Strict dependency on people, processes, technology, etc.		

## Conclusion

Most of the objectives and all the scopes have been successfully implemented as well as achieved for this project. The main aim of the project is to ensure students who are undergoing FYP have an effective time management with the assistances of their supervisors. Many challenges as well as doubts were faced such as low familiarity with Visual Studio and time constraints, but they ultimately shape my will power to not give up on completing this project. I strongly believe that the system from the project can help many students to deal with procrastination and time management. My hope is that I can also help others to potentially unlock ideas for new innovations that will help further improve our daily lives.