## G2U - a second life for every treasure

Course ID.: CPE-334

#### **Submitted By-**

Chawit Pimapansri	(ID: 65070503411)
Sorawit Tonpitak	(ID: 65070503438)
Jutamas Kaewchuenchai	(ID: 65070503444)
Nichaporn Manachaiprasert	(ID: 65070503446)
Thanakit Chokbunsuwan	(ID: 65070503448)
Arita Tragulmalee	(ID: 65070503470)
Yuil Tripathee	(ID: 65070503480)
Tom Medhi Pannier	(ID: 67540460025)

#### **Submitted To-**

Department of Computer Engineering in partial fulfillment of the requirements for the completion of CPE-334 Software Engineering course.

#### Supervised by-

Dr. Natasha Dejdumrong
Associate Professor
Department of Computer Engineering



# **Revision History**

Revision	Date	Author(s)	Description
v0.1	2023-04-21	John Doe, Jane	First release, include trial results
		Doe	
v0.2	2024-11-05	Tom Medhi Pan-	Add EU market evaluation
		nier	

### **Abstract**

We would like to think about it later.

**Keywords**: We would like to think about it later.

# **Acknowledgments**

We would like to think about it later.

### **Contents**

List of Tables						
Lis	List of Figures					
I	Project Description	1				
1	Introduction	2				
	1.1 Background	2				
	1.2 Market study	2				
	1.3 Scope of work	2				
	1.4 A dummy section	2				
2	Project Management	3				
	2.1 Incremental funding methodology	3				
	2.2 Agile Method with Kanban Tool	3				
II	Requirements	4				
3	Requirements Elicitation	5				
	3.1 Elicitation Techniques	5				
	3.2 Stakeholders	5				
	3.3 Data Flow Diagram	5				
	3.4 Use Case Diagram	5				
	3.5 Functional Design	5				
	3.6 Usability	5				
	3.7 Other Non-functional requirements	5				
4	Usability Requirements	6				
II	IDesign and Development	7				
5	Systems Design	8				
	5.1 Software Architecture	8				
	5.2 Class Diagram	8				

		CONTE	NTS
	5.3 5.4 5.5	Components Diagram	8 8 8
6	Imp	lementation	9
	6.1	Low Code	9
	6.2	Prototyping	9
	6.3	Coding	9
	6.4	Systems Integration	9
IV	Test	t and Evaluation	10
7	Eval	uation of Outcomes	11
	7.1	Testing Methodologies	11
	7.2	Results	11
	7.3	Discussion	11
8	Con	clusion	12
	8.1	Discussion	12
	8.2	Future Work	12
	8.3	Recommendation	12

References

## **List of Tables**

# **List of Figures**

4 4	The proposed tree etricative	for the error implementation	•	~
1.1	The proposed tree structure	or the array implementation.		2

# Part I Project Description

### Introduction

- 1.1 Background
- 1.2 Market study
- 1.2.a SEA Market
- 1.2.b EU Market
- 1.3 Scope of work

### 1.4 A dummy section

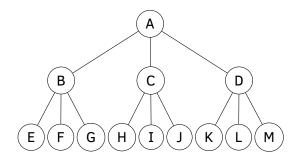


Figure 1.1: The proposed tree structure for the array implementation.

# **Project Management**

TODO: Comparative analysis of each methodology and what they deliver

### 2.1 Incremental funding methodology

Used for high level decisions.

#### 2.2 Agile Method with Kanban Tool

Used for low level decision and workflow orchestration.

# Part II Requirements

## **Requirements Elicitation**

- 3.1 Elicitation Techniques
- 3.2 Stakeholders
- 3.3 Data Flow Diagram
- 3.4 Use Case Diagram
- 3.5 Functional Design
- 3.6 Usability
- 3.7 Other Non-functional requirements
- 3.7.a Mandated constraints

Examples include: Economics

# **Usability Requirements**

[1]

# Part III Design and Development

## **Systems Design**

- **5.1** Software Architecture
- 5.2 Class Diagram
- **5.3** Components Diagram
- 5.4 Sequence Diagram
- **5.5** Deployment Diagram
- 5.5.a Demonstration model
- 5.5.b Full scale production model

# **Implementation**

- 6.1 Low Code
- **6.2** Prototyping
- 6.3 Coding
- 6.4 Systems Integration

# Part IV Test and Evaluation

### **Evaluation of Outcomes**

- 7.1 Testing Methodologies
- 7.2 Results
- 7.3 Discussion

## Conclusion

- 8.1 Discussion
- 8.2 Future Work
- 8.3 Recommendation

### **References**

[1] Duolingo. Duolingo brand guidelines. URL https://design.duolingo.com/. Accessed on 2024-12-04.