

International School

Capstone Project 2

CMU-SE 451 – C2SE.12

Project Plan

Version 1.1

Date: March 20th, 2021

Learn English Together

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PROJECT INFORMATION

Project acronym	LET				
Project Title	Learn English Together				
Start Date	26 Feb 2021	End Date	08 Jun 2021		
Lead Institution	International Schoo	l, Duy Tan University	l		
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DOCUMENT NAME

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Title	Project Plan Doc	ument	
Author(s)	H2MT Team		
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REVISION HISTORY

Version	Person(s)	Date	Description
1.0	Le Thanh Ha	16-Mar-2021	Create Project plan document
1.1	Le Thanh Ha	20-Mar-2021	Fix Project plan document

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Introduction:

1.1. Purpose:

This document provides a summary of the project's objectives, division of work, the major milestones, required resources, time and overall schedule and budget allocation used and based on the document proposal to build a dating website application on time, at the request and plan.

1.2. Project Overview:

- Reference to C2SE.12_Proposal_LET_ver1.2.docx

1.3. Project Deliverable:

- The project will be implemented for users such as admin, manager, teacher, alumni, and student.

2. Team Organization:

2.1. Scrum Team Information:

Table 1: Scrum Team Organization.

Full Name	Phone	Email	Position
MSc Huy, Truong Dinh	0982132352	truongdinhhuy@dtu.edu.vn	Mentor
Ha, Le Thanh	0334002818	lethanhhadtu@gmail.com	Scrum Master
Hieu, Le Xuan	0399706614	xuanhieu.le.1999@gmail.com	Member
My, Ngo Ngoc	0764497391	ngongocmy851999@gmail.com	Member
Thong, Doan Trung	0886428208	doanthong002@gmail.com	Member

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2.2. Role and Responsibility:

Table 2: Role and Responsibilities.

Table 2: Role and Responsibilities.					
Role	Responsibility	Name/Title			
Product Owner	 Understand the user and customers with their needs. Collaborate with the development team. Manage the stakeholders. Describe the user experience and product features. Provides detail user stories. 	Duy Tan University			
Scrum Master	 Communicate the value of Scrum Teach the organization on Scrum to maximize business value Attend all Scrum meetings Preserve the integrity and spirit of the Scrum framework Maintain the focus of the Team Make the Team aware of impediments and facilitate efforts to resolve them Serve as a coach and mentor to members of the Team Respectfully hold the Team, Product Owner and Stakeholders accountable for their commitments Continually work with the Team and business to find and implement improvements 	Ha, Le Thanh			
Secretary	- Record the content of group meetings and activities of the member	Hieu, Le Xuan			
Reviewer	- Review documents	All Members			
Developer	Analysis of the functions and requirements of the product.Code and test.Fix error.	All Members			
Analyzer	Gather user stories.Analysis user story to do specify Document.	All Members			
Tester	- Do the Test plan	All Members			

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	 Creation of test designs, test processes, test cases and test data. Carry out testing as per the defined procedures. Graph the results and make sure people know when test results decline. Prepare all reports related to software testing carried out. Analysis and evaluate the Test result. Ensure that all tested related work is carried out as per the defined standards and procedures. 	
Mentor	Guide on the process.Monitoring all activities of Team.	MSc Huy, Truong Dinh
	- Help with anything.	

2.3. Communication Methodology:

Table 3: Communication Methodology.

Audience/ Attendees	Topic/ Deliverable	Frequency	Method
Mentor and Team member	Project Progress Review	Weekly	Meeting, Email, Zalo
Team Member	Project Progress Review and	Daily	Trello, GitHub,
	Daily Meeting		Zoom

2.4. Communication and Report:

Table 4: Communication and Report.

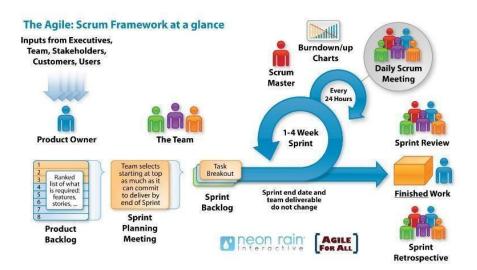
Type of communication	Methods, tools	Frequency	Information	People
Communication among in group				
Scrum meeting	Face to face or Hangouts	Every two day	Informed about what was done in the last 24 hours, working on plans for today, the difficulties encountered and the solutions required, just meeting 10-15 minutes.	Project team

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Sprint Planning Meeting	Meet face to face	15-20 days	All members in team together to analyze the requirements, functions, working on the sprint going to do, planning and design for the sprint.	Project team
Retrospective meeting	Meet face to face	15-20 days	_	Project team and Mentor
Demo	Meeting online	Every day	A web-based task tracking system. To manage or divide task, report bugs/issues.	Project team.

3. Development Process:

Scrum Process



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- Scrum is an iterative and incremental agile software development framework for managing software projects and product or application development.
- Scrum focuses on project management institutions where it is difficult to plan.
- Mechanisms of empirical process control, where feedback loops that constitute
 the core management technique are used as opposed to traditional command-andcontrol management.
- Its approach to planning and managing projects is by bringing decision-making authority to the level of operation properties and certainties.

Benefit of the methodology:

- Project can respond easily to change.
- Problems are identified early.
- Customers get the most beneficial work first.
- Work done will better meet the customer's needs.
- Improved productivity.
- Ability to maintain a predictable schedule for delivery.

4. Schedule and Cost:

4.1. Detailed Schedule:

No.	Task Name	Start	Finish	Effort
1	Initial	26/02	06/03	21 hrs
1.1	Gathering Requirement	26/02	28/03	8 hrs
1.1.1	Get requirement from Mentor MSc Huy Truong Dinh	26/02	27/02	2 hrs
1.1.2	Analyzing requirement	27/02	28/02	6 hrs
1.2	Create Proposal Document	01/03	06/03	16 hrs
1.2.1	Product Definition	01/03	02/03	3 hrs
1.2.2	Business Need	02/03	03/03	2 hrs

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1.2.3	Prior Art	03/03	04/03	3 hrs
1.2.4	Proposed Solution	04/03	05/03	3 hrs
1.2.5	Master Plan	05/03	06/03	5 hrs
2	Start Up	07/03	14/03	44 hrs
2.1	Project kick-off	07/03	08/03	2 hrs
2.2	Create Document	08/03	14/03	42 hrs
2.2.1	Project's Meeting	08/03	08/03	3 hrs
2.2.2	Create User Stories	09/03	09/03	6 hrs
2.2.3	Create Product Backlog	10/03	10/03	10 hrs
2.2.4	Review Document	11/03	11/03	5 hrs
2.2.5	Create Project Plan	12/03	12/03	8 hrs
2.2.6	Create Architecture Design Document	13/03	13/03	8 hrs
2.2.7	Review Document	14/03	14/03	2 hrs
3	Development			
3.1	Sprint 1	15/03	12/04	103 hrs
3.1.1	Sprint Planning Meeting	15/03	15/03	4 hrs
3.1.2	Create Sprint Backlog	15/03	15/03	2 hrs
3.1.3	Create Test Plan document for Sprint 1	16/03	16/03	2 hrs
3.1.4	Create Database document for Sprint 1	16/03	16/03	2 hrs
3.1.5	Design	17/03	25/03	21 hrs
3.1.5.1	Design interface of Home Page	17/03	18/03	5 hrs

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3.1.5.2	Design interface of Register	18/03	18/03	4 hrs
3.1.5.3	Design interface of Login	18/03	18/03	4 hrs
3.1.5.4	Design interface of profile	19/03	19/03	4 hrs
3.1.5.5	Design interface of chat room group	20/03	20/03	4 hrs
3.1.5.6	Design interface of list group	21/03	21/03	4 hrs
3.1.5.7	Design interface of member group	22/03	22/03	4 hrs
3.1.5.8	Design interface of call video group	23/03	23/03	4 hrs
3.1.5.9	Design interface of record group	24/03	24/03	4 hrs
3.1.5.10	Design interface of message	25/03	25/03	4 hrs
3.1.6	Coding	26/03	09/04	58 hrs
3.1.6 3.1.6.1	Code Main Menu for users	26/03 26/03	09/04 28/03	58 hrs 16 hrs
3.1.6.1	Code Main Menu for users	26/03	28/03	16 hrs
3.1.6.1	Code Main Menu for users Code Login for users	26/03 29/03	28/03	16 hrs 4 hrs
3.1.6.1 3.1.6.2 3.1.6.3	Code Main Menu for users Code Login for users Code Register for users	26/03 29/03 30/03	28/03 30/03 31/03	16 hrs 4 hrs 4 hrs
3.1.6.1 3.1.6.2 3.1.6.3 3.1.6.4	Code Main Menu for users Code Login for users Code Register for users Code Profile for users	26/03 29/03 30/03 01/04	28/03 30/03 31/03 02/04	16 hrs 4 hrs 4 hrs 10 hrs
3.1.6.1 3.1.6.2 3.1.6.3 3.1.6.4 3.1.6.5	Code Main Menu for users Code Login for users Code Register for users Code Profile for users Code Group for users	26/03 29/03 30/03 01/04 03/04	28/03 30/03 31/03 02/04 06/04	16 hrs 4 hrs 4 hrs 10 hrs
3.1.6.1 3.1.6.2 3.1.6.3 3.1.6.4 3.1.6.5 3.1.6.6	Code Main Menu for users Code Login for users Code Register for users Code Profile for users Code Group for users Code Message	26/03 29/03 30/03 01/04 03/04 07/04	28/03 30/03 31/03 02/04 06/04 09/04	16 hrs 4 hrs 4 hrs 10 hrs 10 hrs

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3.1.7.3	Test Register	10/04	10/04	2 hrs
3.1.7.4	Test profile	10/04	10/04	4 hrs
3.1.7.5	Test group	11/04	11/04	4 hrs
3.1.7.6	Test message	11/04	11/04	4 hrs
3.1.8	Release Sprint 1	11/04	12/04	4 hrs
3.1.8.1	Sprint 1 Review Meeting	11/04	11/04	2 hrs
3.1.8.2	Sprint 1 Retrospective	12/04	12/04	2 hrs
3.2	Sprint 2	13/04	10/05	185 hrs
3.2.1	Sprint Planning Meeting	13/04	13/04	4 hrs
3.2.2	Create Sprint Backlog	13/04	13/04	2 hrs
3.2.3	Create Test Plan document for Sprint 2	14/04	14/04	2 hrs
3.2.4	Create Database document for Sprint 2	14/04	14/04	2 hrs
3.2.5	Design	15/04	20/04	40 hrs
3.2.5.1	Design user interface of Find a helper	15/04	16/04	8 hrs
3.2.5.2	Design user interface of Support for user	16/04	17/04	8 hrs
3.2.5.3	Design user interface of Search user	17/04	18/04	8 hrs
3.2.5.4	Design user interface of Learn Vocabulary	18/04	19/04	8 hrs
3.2.5.5	Design user interface of Quiz	19/04	20/04	8 hrs
3.2.6	Coding	20/04	06/05	99 hrs
3.2.6.1	Code Find a helper	20/04	21/04	18 hrs
3.2.6.2	Code Support for user	21/04	23/04	18 hrs
3.2.6.3	Code Search	24/04	26/04	16 hrs

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3.2.6.4	Code Learn Vocabulary	27/04	02/05	25 hrs
3.2.6.5	Code Quiz	03/05	06/05	22 hrs
3.2.7	Testing & Fix Bug	07/05	08/05	32 hrs
3.2.7.1	Test Find a helper	07/05	07/05	8 hrs
3.2.7.2	Test Support for user	07/05	07/05	5 hrs
3.2.7.3	Test Case for Search	08/05	08/05	5 hrs
3.2.7.4	Test Learn Vocabulary	08/05	08/05	7 hrs
3.2.7.5	Test Quiz	08/05	08/05	7 hrs
3.2.8	Release Sprint 2	09/05	10/05	4 hrs
3.2.8.1	Sprint 2 Review Meeting	09/05	09/05	2 hrs
3.2.8.2	Sprint 2 Retrospective	10/05	10/05	2 hrs
3.3	Sprint 3	11/05	01/06	119 hrs
3.3.1	Sprint Planning Meeting	11/05	11/05	4 hrs
3.3.2	Create Sprint Backlog	11/05	11/05	2 hrs
3.3.3	Create Test Plan document for Sprint 3	12/05	12/05	2 hrs
3.3.4	Create Database document for Sprint 3	12/05	12/05	2 hrs
3.3.5	Design	13/05	17/05	30 hrs
3.3.5.1	Design interface of Dashboard	13/05	14/05	8 hrs
3.3.5.2	Design interface of Manager account	14/05	15/05	5 hrs
3.3.5.3	Design interface of Admin	15/05	16/05	10 hrs
3.3.5.4	Design interface of Event	16/05	17/05	7 hrs
3.3.6	Coding	18/05	28/05	59 hrs
3.3.6.1	Code Dashboard	18/05	20/05	12 hrs
3.3.6.2	Code Admin	21/05	23/05	15 hrs

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3.3.6.3	Code Manager account	23/05	25/05	22 hrs
3.3.6.4	Code Event	26/05	28/05	10 hrs
3.3.5	Testing & fix Bug	29/05	30/05	16 hrs
3.3.7.1	Test Dashboard	29/05	29/05	4 hrs
3.3.7.2	Test Admin	29/05	29/05	4 hrs
3.3.7.3	Test Manager account	30/05	30/05	4 hrs
3.3.7.4	Test Event	30/05	30/05	4 hrs
3.3.6	Release Sprint 3	31/05	01/06	4 hrs
3.3.6.1	Sprint 3 Review Meeting	31/05	31/05	2 hrs
3.3.6.2	Sprint 3 Retrospective	01/06	01/06	2 hrs

Table 5: Detailed Schedule.

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4.2. Cost

4.2.1. Cost Person/Hours

Full Name	Role	Salary Rate (USD/hour)
Ha, Le Thanh	Scrum Master	2
Hieu, Le Xuan	Team Member	2
My, Ngo Ngoc	Team Member	2
Thong, Doan Trung	Team Member	2

Table 1. Cost person/hours

4.2.2. Total Cost Estimate

No	Criteria	Price	Total (USD)
1	Working hours	2	2700
2	Other cost	100	400
		1	3100

Table 2. Total cost estimation

Description	Amount	Unit
Number of members	4	Person
Number of working hours per day	3	Hours
The cost per hour per member	2	USD
The number of working days	90	Days

- The explanation for the table:
- Amount of working hours = 4 members * 3 hours * 90 days
- Other cost = 4 members * 100 USD

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5. Project Risk:

Table 7: Rating for likelihood and seriousness for each risk.

RATING FOR LIKELIHOOD AND SERIOUSNESS FOR EACH RISK					
L	Rated as Low	E	Rated as Extreme (Used for Seriousness only)		
M	Rated as Medium	NA	Not Assessed		
Н	Rated as High				

Table 8: Project Risk.

Risk	Definition	Level	Likelihoo d	Mitigation Strategy
Estimates of project planning	The plan may be delayed for the initial estimate of the project.	L	L	Analysis and assessment of the scale. Reduce requirements.
Requirements	Internal contradictions that may exist in the request. Important requirements may be missing from the formal requirements specification.	Н	Н	Uniform requirements prior to analysis.
Estimated project schedule	Time sort of work.	Е	Е	Time project was created to be updated and evaluated regularly.
Programming experience	Programming Languages and technology	M	L	Experience sharing used to reduce the research time.
Technical processes	The standard procedure cannot meet the requirements of specific solutions.	L	M	Analysis of requirements and processes to ensure

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	The new process may be required. The process can be improved and more efficient.			appropriate levels. If the new process is needed, we need to evaluate this response has improved over the old process.
Network	Block by Limited Bandwidth	Н	Н	Upgrade transmission line network
Time	Project implementation period is too short, so our team cannot complete this project on a short time. During project implementation, our team to learn and have more work to do, our team cannot focus all their time to carry out this project.	Н	M	Reduce time and increase individual personal time working in their stay on the 7th day and Sunday.
Project Management	Project management system may not be sufficient to support the requirements of the project.	L	Н	Discuss with the group to offer solutions and consistent accuracy.

6. Deliverables

Table 9: Deliverables

No.	Document	Deadline	File Name
1	Proposal Document.	16 –Mar – 2021	C2SE.12_Proposal_ LET_ver1.2.docx
2	Project Plan Document	20 –Mar – 2021	C2SE.12_ProjectPlan_LET_ver1. 1.docx

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