# 天主教輔仁大學英國語文學系學士班畢業成果 ENGLISH DEPARTMENT, FU JEN CATHOLIC UNIVERSITY GRADUATION PROJECT 2023

指導教授:周德嫌老師 Dr. Lynn Chou

VR Game Design Viking Age: A Time to Live and Eat

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學生:張婷榕撰 Tina Ting-Jung Chang

VPHLCH00TUDO

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## ENGLISH DEPARTMENT, FU JEN CATHOLIC UNIVERSITY GRADUATION PROJECT 2023

指導教授:周德嫌老師 Dr. Lynn Chou

電腦應用及程式設計 Applied Computer Technology and Programming

學生:張婷榕

English Name: Tina Chang VERITAS

# Table of Content

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SANCTITAS BONITAS

- Introduction
- <u>VR Game Design</u>
- <u>Storyboard</u>
- QC Checklist
- Programing Journal
- <u>Storyboard</u>
- Jigspace
- <u>Mozilla Hubs</u>
- Final Presentation PPT Slides
- Reflection and Future Study

PULCHRITUDO

- <u>Reference</u>

# Viking Age – The time to Live and Drink Name: Tina Chang ID: 408110388

### Introduction

As a human being, what we can't live without is food and drinks, and they can provide essential nutrients to human bodies. After knowing the theme of the project is set in the Viking age, what came to our mind first was what the food and drinks the Vikings had, what plants and animals the Vikings kept, and what was their homes like in the Viking age. In this project, we aimed to find answers to these questions. We take these questions into consideration when deciding which group to collaborate with from the other course, and we eventually decided to collaborate with Sharon Liao whose report is about the Viking to whose and the place they live. We believed by choosing this report, it will be helpful when creating the background of the project and the scenes in Mozilla Spoke. The objectives of this project is to provide an interesting method to learn knowledge about the Vikings for those who are interested in observing the food and drinks, the agriculture and animals, and the geography of the Viking age as we do. We hope that we can not only deliver the message about the food and drinks the Vikings had, we can also make users have fun observing the two scenes, which are the farm and the longhouse.

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# VR Game Design

Student ID: 4081	10388 Name: 張婷榕 Tin	a Chang	Group ID: Group 5		
	Viking Age – A Time to Live	Teammate(s)	Jimmy Huang, Ryan Chen,		
Topic	and Drink		Darwin Au, Tina Wu, Tina		
			Chang		
<b>T1</b>	The Vikings' food and drinks	Background	The Viking Age		
Theme					
	For all the people who are intereste	d in learning the	Vikings' culture, especially		
Target Users	agriculture and what the food and c	lrinks the Vikings	had at the Viking Age.		
A	「 長 基	¥ WG			
	We hope to give the users a deeper	and more thoroug	h understanding of Viking farming		
	and food. Through the scenes and	3D model, we are	e able to visualize our description.		
Objectives	By observing the farm and the long	house, the users ca	an find the answers to the questions		
Objectives	listed separately in these two scene	es, and eventually	learned what the food and drinks		
	the Vikings had, and what grains an	nd animals did the	e Vikings keep.		
		11 11			
Character(s)	er(s) The players who enter the two scenes, the farm and the longhouse.				
		-+ III			
	In the scene of the farm, the users of				
	grains. After they done their observation, they can go to the billboard to answer the				
	questions and check whether they have the right answers at the same time.				
Plot	As for the scene of the longhouse,				
	such as porridge on the table inside the longhouse. When they done observing the				
	interior part of the longhouse, it's time for them to answers the questions listed on the				
	wall and check their answers.				
	After entering the forme there		first shains shout which some t		
	After entering the farm, the users n	and the second second			
Come Dierr	observe first, the farm or the longh-	the second s	30		
	Game Play questions by observing the surroundings in both scenes. When they want to go to the				
and mechanics other scene, all they need to do is to click on the button provided in both			on provided in both rooms that		
7	has the link to the other scene.				
50					

# Storyboard

C	storyboard Sound					
Scene	Image		Sound			
	Screen shot	Description	Narration/			
			Sound			
			effect/			
			Background			
			music			
1		When enter the	There is a			
	The Contractive and the first section of the sectio	longhouse, the	list of			
		users will see the	questions			
		food and drinks	about the			
		the Vikings had.	Viking			
	longhouse	Also, there will	agriculture.			
	Search what is on the table and answer questions on the worksheet about Wixing food and geruldure	be a				
1		<b>T</b> 1 1'	N 1			
1		The surrounding	No sound			
		of where the	effect			
	A AVE A A A A A	Vikings lived.				
	Martin 200	*				
2		The users can	The			
		observe the farm	surrounding			
	This is one place where I grow food for my tribe!!!	and where the	of the farm.			
		Vikings grew the				
	TAS BONITAS	grains they used				
		to produce food.				
		Concession of the second se				
		ITAS 2				

2		The image	From the
2	This is the other place where we get	delivers the	image, the
	food. Find the object that can be our food.	message that the	users can
		Vikings would	learn what
		go fishing.	they do
		go moning.	when going
	A A A A A A A A A A A A A A A A A A A		seafaring.
			searang.
2	A bala and a first realized and the second second	The storyboard	The
		tells the story	background
	This is the place	about what the	of the
	where we make our drink.	Vikings used to	image
	MANY VIA DECEMBER AND A MAN A	produce the	shows the
		drinks they had.	grains the
		- *	Vikings
		-	had.
		5 + N	
2		The surrounding	No sound
		of the Viking	effects.
	This is the village the	village and the	
		location of the	
		longhouse.	
2		The man	The users
		delivers the	can find out
	Come and Dine in the Longhouse!!! Guess which	message to the	what their
	ingredients we have just seen make the food on the table?	users that they	mission is
		can find out the	from the
		ingredient being	man in the
		used to produce	storyboard.
		food on the	,
		table.	

Studer	nt ID: 408110388 Name	: Tina Chang		Gro	up ID: Group 5	
No.	Item	Module	Result	Result		
			Pass	Minor	Major	Pass/Hold
				issue	issue	
1	When click on the button to	A board	$\checkmark$		The users can	Pass
	enter the room, the users will				learn where to	
	enter the first scene, which is the		-	1	start observing.	
	Viking farm.					
2	When pass the board suggesting	Wheat farm,	$\checkmark$	-		Pass
	where the users are, there will be	horse, pig,	Ho			
	the animals and the grains the	goat	¥.			
	Vikings had.					
3	When pass the animals and	A billboard	$\checkmark$		The users can	Pass
	grains, there is a board listed	with a list of			find the	
	questions for users to find	questions		2	answers in the	
	answers from the farm.	L			farm.	1
4	When click the button of the	A button with	$\checkmark$	122	The users can	Pass
	other scene, the link will direct	the link to		6.	have the access	
	the players to the second scene,	another scene	×.	× 4	to another	
	the longhouse.		18	R.	scene.	
5	The sign on the wall suggest	Sign on the	$\checkmark$			Pass
	where the location of the users.	wall		• •		
6	There are several kinds of food	Table, flat	~			Pass
	and drinks the Vikings had being	bread, rye		<u> </u>		
	put on the table.	bread,				
		porridge,	~			
		cider &mead,				
	CANC	pickled	0W/1	AC		
	0	herring		12		
7	There is a list of questions about	A list of	~	ERIT	The users can	Pass
	the Viking food and drinks.	questions on			find the	
	1	the wall			answers to the	
					questions from	
					the food and	
					drinks on the	
					table.	

# QC Checklist

# **Programming Journal**

- Articulate your thoughts
- Free up your mind and improve your concentration.
- Records the history of your progress and development

 Date:
 2022/06/18
 Student ID:
 408110388
 Group ID:
 Group 5

## 1. Project goal/ scope.

The goal of this project is to arouse people's acquaintance to the Vikings and their lifestyle and provide those who are interested in learning the food and drinks the Vikings had an opportunity to experience what their life was like in the virtual world.

2. My task(s)

In the project of Mozilla Hubs Scene Creation, my responsibility was to organize and outline our thoughts and discussion into the flowchart with Tina Wu, and to find and provide the 3D models that we think should be put in the scene to our group member Darwin Au.

## 3. Progress.

#.	Task description	Done
1	Flowchart – Tina Chang, Tina Wu	$\checkmark$
	Tina and I are responsible for creating the flowchart, which is crucial for	
	organizing all of our thoughts and ideas and outlining how our project is	
	going to present.	
2	Storyboard – Jimmy Huang, Ryan Chen	$\checkmark$
	Jimmy and Ryan were responsible for the creation of storyboard. When	
	the storyboard was created, the setting of the two scenes were determined.	
3	Mozilla Hubs – Darwin Au	$\checkmark$
	Darwin was responsible for creating the whole scene and fulfilling our	
	expectation to the project.	



### 4. Problem solving solutions

#	Problem encountered	Solution(s) tried/ other possible solutions
1	Inefficient discussion and malfunction	Help each other when encounter the malfunction
	devices due to distant learning.	of devices we use and try to analyze and
		organize our thoughts systematically during the
	-	discussion.
2	Problems of co-editing	Use the same account from a group member to
		edit the project.
3	Unfamiliarity of the tools we use	The whole group worked together to find
		solutions.
4	Technical problem such as the avatar we	After we've tried all the ways out, we decided to
	uploaded to Mozilla Hubs failed to	give up on uploading the avatars.
	appear.	
5	The limitation to the size of the project	Cut down on the amount of 3D models we
		originally planned to put in the scene.

### 5. Lesson(s) learned.

## a. From trial and error

At the beginning of the course, I could not imagine I had the ability to learn how to use the several tools we use in this semester. Since I am not good at the computer technology and do not know anything about programming, I was anxious when selecting this course. I was afraid that I would fall behind my classmates. Thanks to the professor who tried to explain every technique as detailed as possible, and with the help of my team members who taught me step by step and reminded me of the functions to each tool when I had no idea how to accomplish the task assigned by the professor. I had a lot fun when creating the Storymaps, I think learning this tool gave me a brand-new idea of how to express a story to the audience, and it is quite helpful if I want to set up my own blog. The biggest challenge I encounter throughout the semester was at the time when learning how to use Jigspace. After I installed Jigspace in my laptop, every time when I use the app, my computer would be overheated and being shot down. Also, in order to turn the content of the Storymaps into 3D objects, each group member need to take responsible for a part of the content. However, with no access to co-editing in Jigspace, but we managed to finish the task successfully by using the same account from a group member. Overall, there are a lot of lessons I've learned from taking this course. I not only learned from my group members of their spirit and techniques in dealing with the tasks, I also stepped out of my comfort zone to learn the tools that I am not familiar with, and I hope that I can keep this courage and have faith in myself whenever I face any challenges.

#### b. From team member(s)

I think I am quite fortunate to have a group of team members who always provide their assistance whenever I'm in need of help. From my team member Tina Wu, I admire her not only because she is my best friend, she is also the one who always assist me when I do not understand the functions from the tools we use in this semester. Take Jigspace as an example, when I had no idea what type of 3D objects files I should download and how to use some functions of Jigspace, she was the one who taught me step by step, and she even made some instructional videos for me. Jimmy Huang and Ryan Chen were always active in all the discussions, and they provided valuable ideas to all the issues we discussed. They always motivate me to be more devoted into all the projects. And when I had no faith in myself to fulfill something, they always try their best to encourage me and lift up the spirit of whole team. What I appreciate the most to Darwin is that he volunteered to take the responsibility of creating the two scenes from Mozilla Spoke. When we had no idea how to start creating the project and feel anxious about the unfamiliarity to Mozilla Spoke, it was Darwin who told us that he had already looked for some usable setting that we could choose from. And whatever ideas and expectations we had to the project, he helped to fulfill all of them. I think the lesson I've learned from Darwin is the spirit of working hard and never give up on trying new things.

### c. From other team(s)

Throughout the whole semester, most of the time I am impressed by the works done by group 6. I remembered that most of the time group 6 was always the earliest group to finish the tasks assigned by the professor. And when they were sharing their works, they can always express their ideas and the distinguishing features of the works clearly and fluently. Of all the works done by group 6 in the semester, I think the one I like the most must be the Mozilla Hubs Scene Creation. They not only created the scene with sound effect, they also created several different avatars. It is the techniques they applied to their works and the design of the PPT slides that I can learn from. I'm not only impressed by the works from group 6, I also admired the teamwork spirit from them.

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# 6. Most impressive conversation/ event.

I think the most impressive conversation throughout the whole project was the discussion that we finally decided what the interactive game we want to put in the scenes. We were quite excited when we planned to design the Q&A section to interact with the players. Originally, we thought we would be able to set up some buttons in the scene that players can click on to start the game and answer the list of questions. Although we failed to succeed in designing the game section as what we imagined it to be, we still had a lot of fun when discussing all the possibilities that we can add in this project, and all the expectations we want to fulfill in the settings.

#### Your work including Storymap, Jigspace, and Mozilla hubs. Please screen capture your work and

#### give brief description.

#### 1. Storymap: The Viking Age

#### Life in Viking Age

Life in the Viking Age was tough and simple so people at that time needed a lot of energy to make a living. We can also learn that <u>the Vikings</u> would go seafaring, raiding, and pillaging.

Although the Vikings lived in harsh circumstances, they still ate well and cultivated the ability to raise food, this made them become skilled farmers, foragers, and beekeepers To preserve food to eat during the cold winter, the Vikings managed to minimize what they create.

When it comes to working the farms, most of the crops the Viking; grew were things such as oats, barley, wheat, and vegetables. And there was also plenty of livestock scattered across the country-side, such as pigs, cattle, sheep, horses, and chickens.

In the Viking Age, the family would eat two meals a day, the dagmal as the day meal, which was served an hour after rising; and the other the naturnal as the night meal, which was served at the end of the working day.

For the day meal, the adults might eat a bit of some leftover stew with hread and fruit which was still in the cauldron from the night before. The children would have porridge, dried fruit, or perhaps buttermille and bread. The night meal could be fish or and pread the ingit meat could be list of meat stewed with vegetables. They might also cat some more dried fruit with honey as a sweet treat. Also, Vikings drank ale, mead, or buttermilk daily.

#### Viking Food & Drink

Life in the viking age can be described as the feudal contant since they are what they produced on their farms or what they could hunt. The farms were small but large enough to keep the family well-fed in good years. Their food was seasonal, so they might have a lot of food available to cat during some time of the year and very little to eat during others.

A large part of the Viking diet consisted of grain products, and bread would have been enjoyed with every meal, though it is not like the bread we cat nowadays.

the bread we eat nowadays. The Vikings grew different kinds of grains, including, barkey, yes, pelt, and oats. Barely is the most common grain to grow anywhere nice it grows easily. And in some parts of Scandinovia, it would have been possible to grow wheat. Wheat was a rare cereal crop and a luxury product preserved for the rich at the lime. Sait and pepper were available to most Vikings while costiler picces available to most Vikings while costiler picces

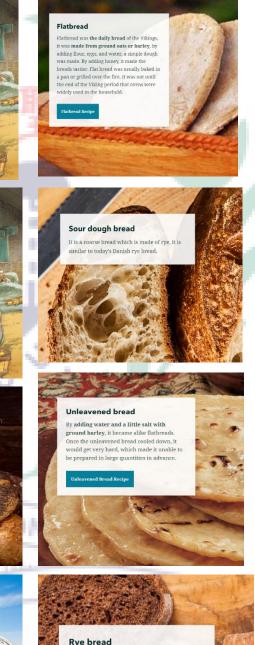
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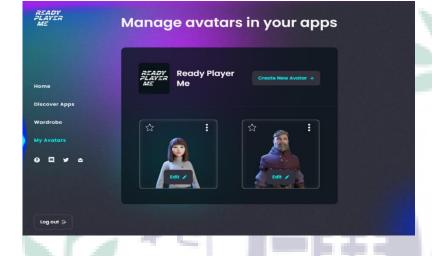




It is regarded to be a Danish dish but dates back to the Viking age, rye and barley were the most important cereals, so as oats, millet, and wheat.

# 2. Jigspace: The Viking Food

- 3. Mozilla hubs:
  - The avatars I created: -



The avatar I created being used in Mozilla Hubs: -



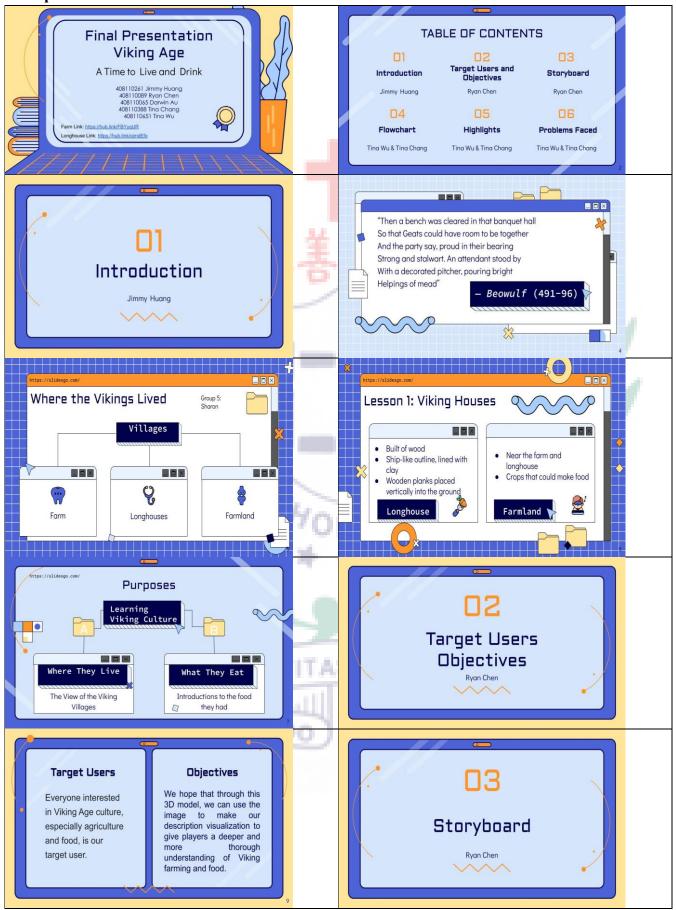
The scene I modified: -

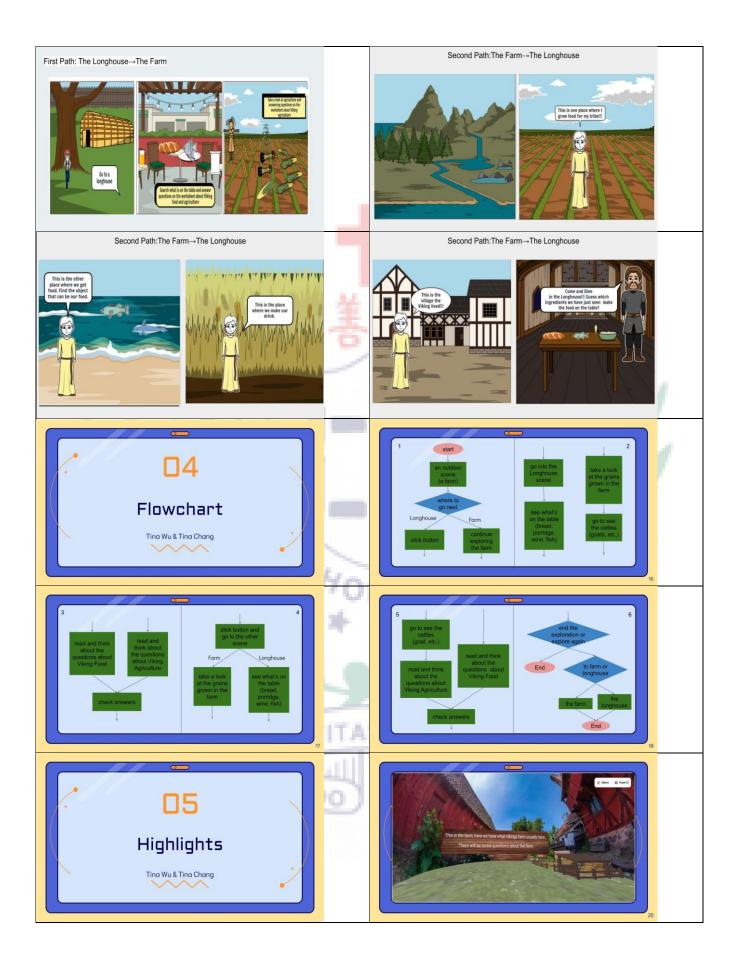


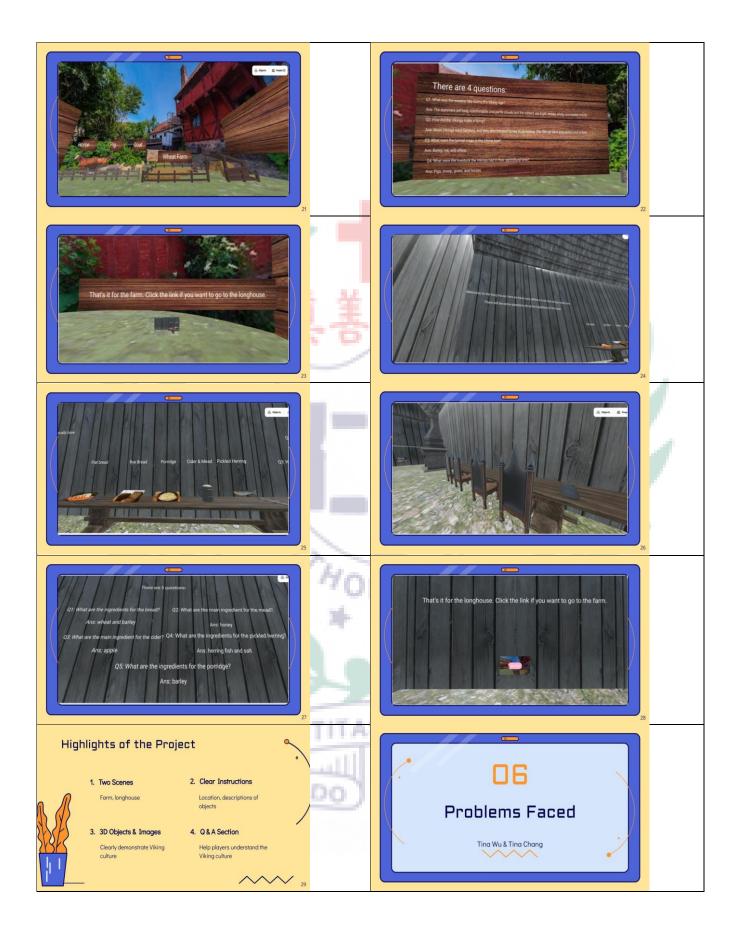
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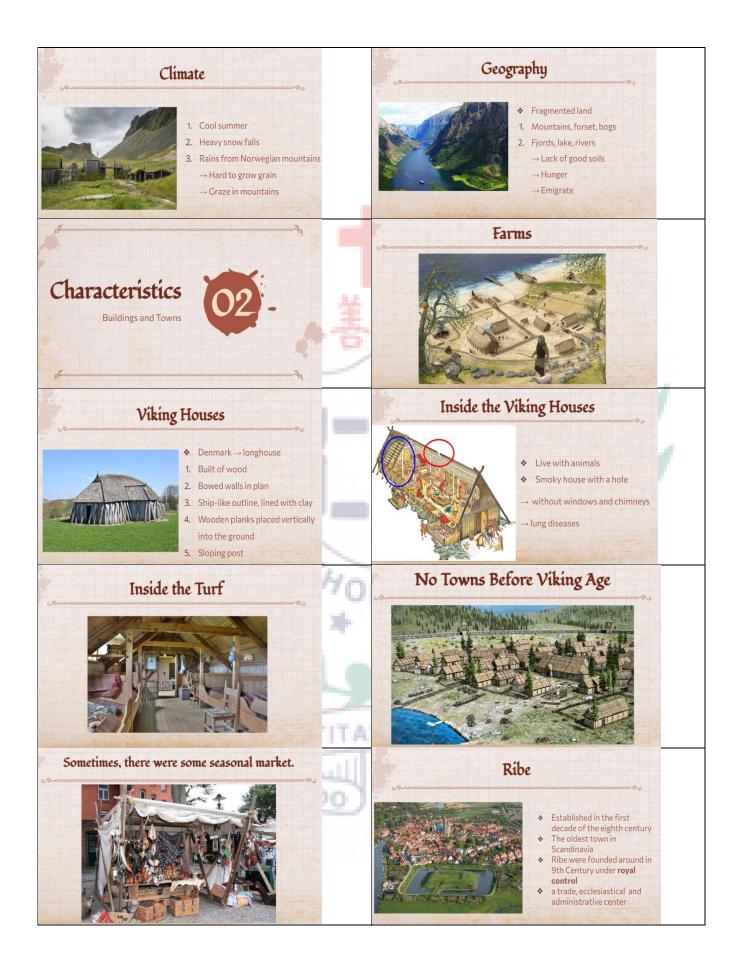
#### **Final presentation PPT**













#### **Reflection and future study**

From the experience of the tools we used in this semester, including the Storymaps, Jigspace, Mozilla Hubs, and Mozilla Spoke, I think I did step out of my comfort zone when learning all these tools. I think I would never believe that I can successfully learn how to use these tools if I did not select this course. There is no regret in taking this course, and I appreciate having the chance to learn these tools with my group members who always show their support whenever I'm in need. With the interest of sharing articles on my social media account, learning Storymaps provide me with a new platform that I can share all my ideas on. Due to the pandemic, people nowadays spend more time working from home or studying at home, with Mozilla Hubs, it allows us to meet up in a virtual room and chat with each other, so I think it is a valuable experience to learn how to create a scene in Mozilla Spoke that can be uploaded to Mozilla Hubs for people to observe. Although I am still unfamiliar with some of the functions from Mozilla Spoke, it is definitely a tool that I would like to keep on learning in the future.

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