Capstone Project 2
CMU-SE 451

Meeting With Mentor Document

Craft Village Pollution Monitor System

Submitted by
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Approved by
Ph.D. Nguyen Thanh Binh

Proposal Review Panel Representative:

_____
Name   Signature   Date

Capstone Project 2 - Mentor:

_____
Name   Signature   Date

Meeting Information			
Product	Craft Village Pollution Monitor System		
Subject	First meeting with mentor		
Location	Online on skype		
Date and Time	*Date*	*Start Time*	*End Time*
	03/03/2023	20:00	21:00
Attendees	♦ Nguyen Thanh Binh ♦ Van Cong Le Ca ♦ Bui Duc Huy ♦ Hua Hoang Phuc ♦ Nguyen thanh Trung ♦ Huynh Ba Nhan	**Mentor Signature**	
Related documents	Proposal document		

Content

- ➢ Introducing new member
- ➢ Demo of the functions implemented in capstone 1
- ➢ Get new requests for capstone 2
    - ❖ Push mobile apps to the store and Backend, web application to online
    - ❖ Check the system when deploying online

Result Items

- ➢ Required documents:
    - ❖ Project Proposal
    - ❖ Project Plan
    - ❖ Architecture Document
    - ❖ Test Plan

Meeting Information			
Product	Craft Village Pollution Monitor System		
Subject	First meeting with mentor		
Location	Online on skype		
Date and Time	*Date*	*Start Time*	*End Time*
	13/03/2023	20:00	20:35
Attendees	♦ Nguyen Thanh Binh ♦ Van Cong Le Ca ♦ Bui Duc Huy ♦ Hua Hoang Phuc ♦ Nguyen thanh Trung ♦ Huynh Ba Nhan	**Mentor Signature**	
Related documents	All documents		

Content

➢ Update the situation of the capstone 2 project:
  ❖ Mobile apps pushed to Google Play Store
  ❖ Backend and Web application pushed to AWS
  ❖ AI up and running through AWS
➢ Get more project requests:
  ❖ Documentation that clearly describes AI and Location-based workflows.
  ❖ Deploy system test on real device. Especially mobile applications need to run on real phones to check and report errors on different types of mobile phones.

Result Items

➢ Required documents:
  ❖ Project Proposal
  ❖ Project Plan
  ❖ Architecture Document
  ❖ Test Plan

Meeting Information			
Product	Craft Village Pollution Monitor System		
Subject	Technical review		
Location	Online on skype		
Date and Time	*Date*	*Start Time*	*End Time*
	22/03/2023	20:00	20:45
Attendees	✦ Nguyen Thanh Binh ✦ Van Cong Le Ca ✦ Bui Duc Huy ✦ Hua Hoang Phuc ✦ Nguyen thanh Trung ✦ Huynh Ba Nhan	**Mentor Signature**	
Related documents	Architecture Document, Test Cases		

Content

➢ Update the situation of the capstone 2 project:
    ❖ Mobile apps pushed to the Google Play Store are approved by Google and allow users to download.
    ❖ Backends, web apps, and AI uploaded to AWS are made into services to avoid crashes and manual restarts.
➢ Clarifying AI and location-based workflow.

Result Items

➢ Required documents:
    ❖ Architecture Document
    ❖ Test Cases

Meeting Information			
Product	Craft Village Pollution Monitor System		
Subject	Idea clarification and demo		
Location	Online on skype		
Date and Time	*Date*	*Start Time*	*End Time*
	30/03/2023	20:00	20:35
Attendees	✚ Nguyen Thanh Binh ✚ Van Cong Le Ca ✚ Bui Duc Huy ✚ Hua Hoang Phuc ✚ Nguyen thanh Trung ✚ Huynh Ba Nhan	**Mentor Signature**	
Related documents	Architecture Document, Test Cases		

Content
- Demo function of production declaration.   - Demo function report.   - Design dashboard of local government (In process).   - Clarification of AI and Location-based workflows.   - Request capstone 2 project update: - AI and Location-Based Documentation.

Result Items
- Required documents: - Architecture Document   - Test Cases

Meeting Information			
Product	Craft Village Pollution Monitor System		
Subject	Technical review and demo		
Location	Online on skype		
Date and Time	*Date*	*Start Time*	*End Time*
	06/04/2023	23:00	00:00
Attendees	- Nguyen Thanh Binh - Van Cong Le Ca - Bui Duc Huy - Hua Hoang Phuc - Nguyen thanh Trung - Huynh Ba Nhan	**Mentor Signature**	
Related documents	Architecture Document, Test Cases		

Content

- ➢ Update the situation of capstone 2 project:
  - ❖ Backend, web application and AI are uploaded to VPS rented in Vietnam to replace the previous AWS.
  - ❖ Fix mobile apps when running on real devices.
- ➢ Demo of positioning functions on the product when running online.
- ➢ Clarifying AI and location-based workflows.

Result Items

- ➢ Required documents:
  - ❖ Architecture Document
  - ❖ Test Cases

Meeting Information			
Product	Craft Village Pollution Monitor System		
Subject	Idea clarification and demo		
Location	Online on skype		
Date and Time	*Date*	*Start Time*	*End Time*
	13/04/2023	20:30	21:10
Attendees	♦ Nguyen Thanh Binh ♦ Van Cong Le Ca ♦ Bui Duc Huy ♦ Hua Hoang Phuc ♦ Nguyen thanh Trung ♦ Huynh Ba Nhan	**Mentor Signature**	
Related documents	Architecture Document, Test Cases		

Content
➢ More demo about having 2-3 craft villages in one location. ➢ The AI team will have a report as well as seek additional opinions to come up with a new AI that matches the requirements. ➢ Clarifying AI and location-based workflows: ❖ When making decisions, AI needs to synthesize information from craft villages and photos to be able to make the most accurate decisions. ➢ Unify how to generate/Data to train AI.

Result Items

➢ Required documents:
   ❖ Architecture Document
   ❖ Test Cases

Meeting Information			
Product	Craft Village Pollution Monitor System		
Subject	Idea clarification and demo		
Location	Online on skype		
Date and Time	*Date*	*Start Time*	*End Time*
	20/04/2023	20:30	21:30
Attendees	- Nguyen Thanh Binh - Van Cong Le Ca - Bui Duc Huy - Hua Hoang Phuc - Nguyen thanh Trung - Huynh Ba Nhan	**Mentor Signature**	
Related documents	Architecture Document, Test Cases		

Content

> ➢ Team AI will have a report as well as ask for more opinions on creating data sets for train AI.
> ➢ Clarification of AI and Location-based workflows.
> ➢ Agree on how to get GPS tags for LSB.

Result Items

> ➢ Required documents:
>   ❖ Architecture Document
>   ❖ Test Cases

Meeting Information			
Product	Craft Village Pollution Monitor System		
Subject	Technical review and demo		
Location	Online on skype		
Date and Time	*Date*	*Start Time*	*End Time*
	08/05/2023	20:00	21:00
Attendees	- Nguyen Thanh Binh - Van Cong Le Ca - Bui Duc Huy - Hua Hoang Phuc - Nguyen thanh Trung - Huynh Ba Nhan	**Mentor Signature**	
Related documents	Architecture Document, Test Cases		

Content

- ➢ Team AI will report:
  - ❖ Train dataset
  - ❖ The questionnaire affects the type of pollution the craft village can cause
  - ❖ Random Forest algorithm application.
  - ❖ Application of Decision Tree algorithm.
- ➢ Use standard Exif and metadata tags for LSB:
  - ❖ GPS GPSLatitude
  - ❖ GPS GPSLatitudeRef
  - ❖ GPS GPSLongitude
  - ❖ GPS GPSLongitudeRef
  - ❖ DateTime

Result Items

- ➢ Required documents:
  - ❖ Architecture Document
  - ❖ Test Cases

Meeting Information			
Product	Craft Village Pollution Monitor System		
Subject	Demo		
Location	Online on skype		
Date and Time	*Date*	*Start Time*	*End Time*
	15/05/2023	20:00	20:50
Attendees	♦ Nguyen Thanh Binh ♦ Van Cong Le Ca ♦ Bui Duc Huy ♦ Hua Hoang Phuc ♦ Nguyen thanh Trung ♦ Huynh Ba Nhan	**Mentor Signature**	
Related documents	All Documents		

Content

➢ Team AI will report:
    ❖ Train dataset
    ❖ The questionnaire affects the type of pollution the craft village can cause
    ❖ Random Forest algorithm application.
    ❖ Application of Decision Tree algorithm.
➢ Handling survey conflicts with pollution of craft villages.

Result Items
➢ Required documents: ❖ All Documents