

# Team 21 Milestone1 Review Meeting Summary

## *Meeting Introduction*

Meeting Topic: Review Meeting of the work accomplished during the Milestone 1 of Team 21

Meeting Date: 2024/05/22 22:40-23:40

Meeting Venue: Online Tencent

Meeting Participants:

Project Team Member: Li Jinhao, Wang Zijian, Guo Ziyu, Guo Xiaojie

Reviewer: Zhu Leyi, Shu He, Yang Tengchao, Tian Xinyang, Zhang Zihan, Yin Peiyuan, Liu Yuanzhe, Li Jinlin

## *Meeting Content*

1. Project Overview: Introduction to the basic situation of our project. Our project is called the Intelligent Manhole Cover Hazard Recognition System, which can identify different conditions of manhole covers.
2. Planned Work Introduction: Overview of the work planned to be completed before this milestone.
  - Determine the project and requirements based on the course requirements, and develop the project plan.
  - Complete system design.
  - Study relevant knowledge.
  - Collect data for training.
  - Train the model.
3. Functionality Demonstration: Demonstrate the recognition effect of our currently trained model. When an image is uploaded on the front-end interface, the system will identify the location of the manhole cover in the image and provide its category.
4. Milestone Summary and Feedback: Summarize the completion status of this milestone meeting and formulate the plan for the next phase. Adjust the plan based on the suggestions and questions from the participants. Currently, our work aligns with the milestone plan and is slightly ahead of schedule.

## Questions and Suggestions

**Q: How is your team's actual progress compared to the expected schedule? Do you have a burndown chart or something similar?**

A: Our group's current progress is slightly ahead of the expected progress. During the first milestone, we have already completed the corresponding tasks and are continuing to advance on some aspects of milestone 2. Our group's burn-down chart is as follows, which clearly illustrates that the actual progress is slightly ahead of the expected progress.

**Q: If unexpected situations such as requirement changes occur and cause delays, do you have any corresponding risk response plans or contingency measures in place?**

A: Our current progress is ahead of the expected pace, with significant advancements made in the content of the second milestone. Therefore, even in the event of changes in requirements or other issues, we have ample time to reassess and refine the project plan.

**Q: Is the main focus of the project on model training? Do you have any plans for productization afterward? It seems that this project would be more suitable as a mobile product. Additionally, I think the front end can impose some restrictions on confidence levels to prevent them from being too high.**

A: Our team's project originates from the service outsourcing competition hosted by the China Mobile Innovation Institute. It is a part of the overall project at the China Mobile Innovation Institute. Therefore, our primary focus is on training and evaluating models to fulfill the requirements of this project. We do not currently have plans to commercialize the project. Regarding the issue of confidence, our team will work on improvements in the future.

**Q: When the confidence threshold is set too high, it may lead to failures in recognition. Will there be any improvements planned for this issue in the future?**

A: It's normal for the recognition results not to be displayed when the confidence threshold is too high, as the model cannot guarantee 100% accuracy in its judgments. As for accuracy testing, we will continue to conduct it and make adjustments to the model accordingly.

**Q: Have you investigated competitors in the market who offer similar products or services? What advantages do you have compared to them?**

A: There are various types of image recognition solutions available in the market, including those for recognizing manhole covers. Our project is a part of a larger initiative, and we haven't yet conducted a detailed analysis of how our overall

project compares to other competitors. We will conduct further research and discussions to better understand our advantages in comparison to others.

**Q: Currently, we have output for model accuracy. Will there be further improvements, such as result analysis or defect handling, in the future?**

A: Currently, we already have output for the numerical accuracy of the model. Will there be further enhancements to address the issue of model accuracy in the future?

**Q: Have the milestones been broken down into detailed tasks, and is there a comparison between expected progress and actual progress based on specific tasks?**

A: Our expected progress is already outlined in the Gantt chart. The comparison between actual progress and expected progress can be observed in the burn-down chart.

### Tasks for the Next Phase

1. Complete the accuracy evaluation of the model.
1. Finish the basic front-end design to allow users to use the system for recognition.
1. If the tasks for Milestone 2 are completed ahead of schedule, proceed with the tasks for Milestone 3.

We will make necessary adjustments based on the issues and suggestions raised in this meeting to ensure the high-quality completion of the project development.

### Meeting Link

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### Signatures

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