

**LICENSE PLATE RECOGNITION**

**Report 2 – Project Management Plan**

– Hanoi, Oct 2021 –

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# II. Project Management Plan

## 1. Overview

### 1.1 WBS & Estimation

|  | **WBS Item** | **Complexity** | **Est. Effort** | **Person** | **Date**  **(finish)** |
| --- | --- | --- | --- | --- | --- |
| **1** | **Researching and planning** |  |  |  |  |
| 1.01 | Researching  & Literature review | Simple | 4 | **Hai & Phuc** | 26/9/2021 |
| 1.02 | Writing report 1 | Medium | 7 | **Hai & Phuc** | 26/9/2021 |
| 1.03 | Planning | Medium | 7 | **Hai & Phuc** | 28/9/2021 |
| **2** | **Side-learning and execution** |  |  |  |  |
| 2.01 | OpenCV | Simple | 2 | **Hai** | 1/10/2021 |
| 2.02 | LBP algorithm | Simple | 2 | **Hai** | 1/10/2021 |
| 2.03 | Draft for report 4 (ver. 1 ) | Simple | 2 | **Hai** | 2/10/2021 |
| 2.04 | Wolf-Jolien method  (preprocessing) | Simple | 2 |  |  |
| 2.05 | Sauvola method  (preprocessing) | Simple | 2 | **Phuc** | 2/10/2021 |
| 2.06 | Otsu’s binarization  (preprocessing) | Simple | 2 |  |  |
| 2.07 | Draft for report 4 (ver. 2) | Simple | 2 | **Phuc** | 3/10/2021 |
| 2.08 | SVM  (character recognition) | Medium | 4 | **Hai** | 6/10/2021 |
| 2.09 | Draft for report 4 (ver. 3) | Simple | 1 | **Hai** | 6/10/2021 |
| 2.10 | SSD300 | Complex | 7 | **Phuc** | 7/10/2021 |
| 2.11 | NMS | Simple | 3 | **Phuc** | 7/10/2021 |
| 2.12 | Draft for Report 4 (ver. 4) | Simple | 2 | **Phuc** | 8/10/2021 |
| 2.13 | Yolo | Complex | 7 | **Phuc** | 12/10/2021 |
| 2.14 | OKM-CNN | Complex | 7 | **Hai** | 12/10/2021 |
| 2.15 | Draft for report 4 (ver. 5) | Simple | 2 | **Hai** | 12/10/2021 |
| 2.16 | Final approach conclusion | Simple | 2 | **Hai & Phuc** | 13/10/2021 |
| 2.17 | Report 4 (ver. 1) | Simple | 2 | **Hai & Phuc** | 16/10/2021 |
| **3** | **Data collection** |  |  |  |  |
| 3.1 | Search for data sources | Medium | 4 | **Hai & Phuc** | 10/10/2021 |
| **3** | **Final implementation** |  |  |  |  |
| 3.1 | Implementation on dataset with final approach | Complex | 7 | **Hai & Phuc** | 20/10/2021 |
| ***Total Estimated Effort (man-days):*** | | |  |  |  |

### 1.2 Project Risks

| **#** | **Risk Description** | **Impact** | **Possibility** | **Response Plans** |
| --- | --- | --- | --- | --- |
| 1 | Overfitting & underfitting | Accuracy |  | * Looking for more data and approach adjustment * Data augmentation. |
| 2 | Optimizing Loss function | Accuracy |  | * Resize features, model adjustment |
| 3 | Fluctuate environment | Accuracy |  | * Preprocessing input * Filter the data |

## 2. Document Management

[*https://github.com/gone2808/AIP391*](https://github.com/gone2808/AIP391)

## 3. Source Code Management

[*https://github.com/gone2808/AIP391*](https://github.com/gone2808/AIP391)