**Closing Checklist**

**1. Customer Acceptance Form**

**CUSTOMER ACCEPTANCE/PROJECT COMPLETION FORM**

**3 March 2023**

**Project Name:** SMART LOCK WITH INTEGRATED ADVANCED RECOGNITION SYSTEM

**Project Manager:**  AMIRUL IAN RASHIDEE BIN MOHD JASNI

**I (We), the undersigned, acknowledge and accept delivery of the work completed for this project on behalf of our organization. My (Our) signature(s) attest(s) to my (our) agreement that this project has been completed. No further work should be done on this project.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Title** | **Signature** | **Date** |
| Hazira Binti Luqman | Executive Director | Hazira | **May 5, 2023** |
| Chin Yep Yang | Managing Director | Chin | **May 5, 2023** |

1. Was this project completed to your satisfaction ? **\_\_X\_\_ YES \_\_\_\_\_ NO**

2. Please provide the main reasons for your satisfaction or dissatisfaction with this project.

The project able to be delivered to us earlier than the time scheduled. The system is easy to use, secure and face-to-face guidance including additional videos for guidance is provided by the company. Project manager and project representative able to communicate well and put much tons of effort to understand our requirements. In addition, all requirements are met and the project was done in less than the cost and time that were estimated.

3. Please provide suggestions on how our organization could improve its project delivery capability in the future.

One suggestion to HanSen inc. is to show regular update to the interface of system being used to developed.

Thank you for your input.

**2. Lesson Learned Document**

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| **LESSONS-LEARNED REPORT**  **3 MARCH 2023** |
| **Project Name:** **Smart Lock With Integrated Advanced Recognition**  **Project Sponsor: Petronas Sdn Bhd**  **Project Manager: Amirul Ian Rashidee Bin Mohd Jasni**  **Project Dates: 29/11/2022 – 3/3/2023**  **Final Budget: RM250,894.00** |
| **a. Did the project meet scope, time and cost goals ?**  Yes, we did meet the main scope of our project within the time given and successfully complete task without the use of extra money and resources.  **b. What was the success criteria listed in the project scope statement ?**  One of the success criteria was set by the sponsor itself, Petronas Sdn Bhd. “Smart Lock must able to detect both fingerprint and facial accurately”.  Next is criteria set by customer itself, “save cost and time within the range agreed, if lower the better” as one of the main criteria for smart lock with advanced recognition  Last but not least, “no additional resources , budget or time” criteria set by Hansen Inc. in the project.  **c. Reflect on whether or not you met the project success criteria**  Yes, our system perfectly achieves what we have planned in the initial stage. The system can recognize face and fingerprint that setup for the owner or the person who can access the lock. The main successful point is that our system satisfied and fulfil our customer’s need and criteria according to their respond and discussion. In addition, project is finished earlier than estimated, and cost is lower than budget.  **d. What were the main lessons your team learned from this project ?**  The main lesson learned in our project is: |

**3. Final Project Report**

1.0 PROJECT OBJECTIVES

Smart Lock with Integrated Advanced Recognition was developing an artificial intelligence system that are able to detect face and fingerprint. By using this system, its Improved security which are system can accurately identify users based on their facial features or fingerprint data, making it more difficult for unauthorized individuals to gain access. Besides, it also convenienceto use and develop a system that are quickly and easily identify users, eliminating the need to fumble with keys or remember a PIN code. Not only that, we also intend to integration with other systems for greater control and automation of the home or office.

2.0 SUMMARY OF PROJECT RESULTS

After the system has been develop and completed, the accuracy reaches the highest percent than expected which is 98.78%

3.0 ORIGINAL AND ACTUAL SCHEDULE

Our team complete the project within the scheduled timeline. The schedule is as below:

Diagram, timeline

Description automatically generated

*Timeline of the project execution*

Chart, bar chart

Description automatically generated

*Gantt Chart of the project execution*

4.0 ORIGINAL AND ACTUAL BUDGET

The actual budget matches the original budget, which means that the team has followed the budget planned at the beginning of the project and does not use any excessive money.

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|  | **OVERALL PROJECT** | **GRANT REQUEST** | **PRISM MATCH** | **MATCH NOT IN PRISM** |
| Sheet #1 Acquisition | **COST** | **Amount** | **Amount** | **Amount** |
| Property Costs | $ 50,000 | $ 50,000 | $ - | $ - |
| Incidental Costs | $ 45,600 | $ 45,600 | $ - | $ - |
| Administrative Costs | $ 40,000 | $ 40,000 | $ - | $ - |
| Indirect Costs | $ - | $ - | $ - | $ - |
| STotal | $ 135,600 | $ 135,600 | $ - | $ - |
|  |  |  |  |  |
|  |  |  |  |  |
| Sheet #2 Design |  |  |  |  |
| Design Costs | $ 40,000 | $ 40,000 | $ - | $ - |
| Indirect Costs | $ - | $ - | $ - | $ - |
| STotal | $ 40,000 | $ 40,000 | $ - | $ - |
|  |  |  |  |  |
|  |  |  |  |  |
| Sheet #3 Restoration |  |  |  |  |
| Construction Costs | $ 75,294 | $ 75,294 | $ - | $ - |
| AA&E | $ - | $ - | $ - | $ - |
| Indirect Costs | $ - | $ - | $ - | $ - |
| Stotal | $ 75,294 | $ 75,294 | $ - | $ - |
|  |  |  |  |  |
| **GTOTAL** | **$ 250,894** | **$ 250,894** | **$ -** | **$ -** |

5.0 PROJECT ASSESSMENT

5.1 SCOPE

The project scope was initiated from the beginning of the project. This system has been developed to identify and classify either it can access or not based on database and input that already make by users. For instance, the system not able to receive and store more than one data which is one person because of memory. It makes only owner of face recognition and fingerprint can access and make it limitation of system. But, the people who not registered in system can unlocked or access system by using password using keypad on system.

5.2 OBJECTIVES

1. **Improved security:** The system can accurately identify users based on their facial features or fingerprint data, making it more difficult for unauthorized individuals to gain access.
2. **Convenience:** The system can quickly and easily identify users, eliminating the need to fumble with keys or remember a PIN code.
3. **Integration with other systems:** The system can be integrated with other smart home or security systems, allowing for greater control and automation of the home or office.

5.3 IMPACTS

1. **Increased security:** The system can help to prevent unauthorized access to a space, reducing the risk of break-ins or unauthorized entry.
2. **Improved convenience:** The system can provide a more convenient and seamless experience for users, improving overall satisfaction and usability.
3. **Reduced risk of lock tampering:** The system can detect and prevent tampering with the lock, reducing the risk of break-ins or unauthorized entry.

6.0 TRANSITION PLAN

HanSen Inc. staff will provide support when require. The main work of support provided by HanSen Inc.’s staff on the Smart Lock with Integrated Advanced Recognition system project are as shown below:

1. Keep the system running smoothly.
2. Handling errors and updates of the system
3. Give the owner of the house instructions on how to utilise the system
4. Monthly information reporting to upper management

**4. Close Contract**

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| **CLOSE CONTRACT**  **HanSen Inc., Contract Closure Notice**  **3/3/2023** |
| This letter serves as formal notice that the VC Jewelry Sdn Bhd contract work has been completed. HanSen Inc has created a Smart Lock With Integrated Advanced Recognition that can detect people's faces and fingerprints.  The project manager, Amirul Ian Rashidee, has offered the following performance evaluation for the collaboration provided:  "We were really delighted with the assistance offered by VC Jewelry Sdn Bhd. The team at VC Jewelry has provided their full cooperation and is eager to maintain open lines of contact with Hansen Inc. so that the entire project may be completed as quickly as possible. We were delighted to collaborate with VC Jewelry Sdn Bhd and look forward to our next partnership. |
| AMIRUL  By: AMIRUL IAN RASHIDEE BIN MOHD JASNI, CEO, HanSen Inc.  Date: 3/3/2023 |