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|  | **FPT ACADEMY INTERNATIONAL**  **FPT – APTECH COMPUTER EDUCATION** |

**Centre Name: ACE-HCMC-2-FPT.**

**Address: 590 Cach Mang Thang 8, District 3, Ho Chi Minh City, Viet Nam.**

**Warehouse management**

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| **Semester:** | 4 | |
| **Batch No:** | T1.2009.A0 | |
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July 2022

**Table of Contents:**

This is to certify that

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have successfully designed and

developed ****

Submitted by:

Date of Issue: \_\_\_\_\_\_\_\_

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**REVIEW I 5**

**Acknowledgment 6**

**Problem Definition 7**

1. Introduction 7
2. Project Requirement 7
3. Project Designing 7
4. Functional Logic 9

**Task sheet review 1 12**

**REVIEW II 13**

1. Architecture & Design of the Project 14
2. Algorithms - Data Flowchart 16
   1. Main data flow for guest 16
   2. Login Function (Admin only) 18
   3. Logout Function (Admin only) 19
   4. Insert Data Function (Admin only) 20
   5. Update Data Function (Admin only) 21
   6. Delete Data Function (Admin only) 22
   7. Admission Function (Student only) 23
   8. Confirmed Admission (Admin only) 24
   9. Registration Function (Student only) 25
3. Data Flow Diagram 26
   1. Context Diagram 27
   2. Level 0 DFD 28
   3. Level 1 DFD 29
4. Use Case Diagram 33
   1. Administrator Use Case 34
   2. Staff Use Case 35
   3. Guest Use Case 35
5. Entity–Relationship Design 36
   1. Entity–Relationship Diagram 36
   2. Entities and Properties 37

**Task sheet review 2 44**

**REVIEW III 45**

1. Database Design 46
   1. Database Design Diagram 46
   2. Database Structure 47
2. GUI Design – Front-end 55
   1. Home page 55
   2. Courses 58
   3. Admission 59
   4. Department 63
   5. Faculty 64
   6. Facilities 65
   7. Registration 66
   8. Contact/Feedback 69
   9. Admin login 71
3. GUI Design – Back-end 75
   1. Department management 75
   2. Faculty management 86
   3. Facility management 92
   4. Course management 98
   5. Event management 104
   6. Achievement management 110
   7. Branch management 116
   8. Admission management 122
   9. Admin management 125

**Task Sheet Review III 128**

**REVIEW I**

**Acknowledgment**

We would like to acknowledge all those who have given support and help us make the project a success.

We wish to express our deep gratitude to all teachers who have been devoting their lives to teach us how to stand-alone and walk ahead.

We are grateful to our families who take care and encourage us even though we are successful or failed, also to our friends who are always care of us. They never leave us alone and always look forward to us when we are on any road of the life.

We are much thankful to the entire staff and chairpersons at the Head Office of Aptech Worldwide, Aptech – Vietnam, and FPT – Aptech Center who have been organizing and looking after our studying course.

There are no words to show our appreciation for teachers of FPT Aptech Centre who have been organizing and looking after us during our studying course to finish this project. Our special thanks Mr. Hoang Duc Quang who works day by day to teach and guide us, e-Project Team at the Head Office who instruct and help us.

Finally, we would like to offer many thanks to all our schoolfellows for their valuable suggestions.

We would like to thank sincerely!

**Problem Definition**

1. **Introduction**

Warehouse management involves organizing, managing, and maintaining all the processes that occur in a warehouse, so that they run as smoothly and efficiently as possible. Even though some of these processes are automated and seem error-free, every warehouse operation is prone to mistakes and challenges.

Warehouse management allows you to keep track of your inventory levels, orders, sales, and deliveries. It can also be used to create work orders, bills of materials, and other production-related documents in the manufacturing industry. Warehouse management is used by businesses to avoid product overstock and outages. It’s a tool for organizing inventory data that was previously kept on paper or in spreadsheets.

1. **Project Requirement**

The client had provided all the content details they want to add in the website. The details of the information and what link the Dashboard page must contain? Name of the links required in the website for navigation. There should be section in the Dashboard for Sale Order, Incoming List, Inquiry, Configuration (with Warehouse, Location, Supplier, Goods Data, Customer,…) and other sections.

1. **Project Designing**

**LOG IN:** forauthenticating account

**DASHBOARD:** Containing charts (income, inventory, goods, sale order,…) and navigation bar to other sections.

**SALE ORDER:** Showing the sale order list

**SALE ORDER DETAIL:** Showing the details of each sale order. In each sale order, showing goods name, price, quantity, shipping quantity, goods status,…

**CUSTOMER:** Showing the details of customers.

**SUPPLIER:** Showing the details of suppliers.

**INCOMING LIST:** Showing list of incoming orders.

**QUALITY CONTROL:** Showing list of the incoming orders waiting for the quality check.

**ALLOCATE REQUEST:** Display warehouse shelf allocation requests based on respective warehouse addresses

**ISSUE REQUEST:** display shipping requests

1. **Functional Logic**

* The staff are able to manage information of warehouse, orders, suppliers, customers and so on, depend on which role they are in charge.
* Importing goods:
  + First, manager has to input the incoming order
  + Then, the incoming order will be moved to Quality Control section.
  + If passed, they will be transferred to Allocate Request section. If not, they will be hidden on system.
  + In Allocate Request section, the order will be put into available location by the manager based on his role.
* Exporting goods
  + First, the staff will receive the sale order.
  + Then, the sale order will be transferred to movement manager. This person will check if the inventory is enough. If enough, he will create an issue order and export the goods.
  + If not, he can reject the sale order and comment the reason (there is a reason column in this section).

**Hardware / Software Requirements**

1. **Server Requirement**

* Hardware

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| **Component** | **Requirement** |
| **CPU** | Processor type:  Pentium IV-compatible processor or faster  Processor speed:  Recommended: 2.0 GHz or faster |
| **OS** | Microsoft Windows Server 2012 with IIS |
| **Memory (RAM)** | RAM:  Minimum: 512 MB  Recommended: 2 GB or more |
| **Hard Drive** | Free space:  Minimum: 200 MB  Recommended: 50 GB or more  Maximum: Operating system maximum |

* Software

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| **Component** | **Requirement** |
| **Microsoft .NET Framework** | Version 4.6 or higher |
| **RDBMS** | Microsoft SQL Server 2017 |

1. **Client Requirement**

* Hardware

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| **Component** | **Requirement** |
| **CPU** | Processor type:  Pentium III-compatible processor or faster  Processor speed:  Recommended: 1.0 GHz or faster |
| **OS** | All OS (Window, Linux, Android, Mac OS …) |
| **Memory (RAM)** | RAM:  Minimum: 512 MB  Recommended: 1 GB or more  Maximum: Operating system maximum |
| **Hard Drive** | Free space:  Minimum: 10 MB |
| **Mobile** | Android mobile (Android 8 or later) |

* Software

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| **Component** | **Requirement** |
| **Web Browser** | Chrome, Opera (up to date) |

**Task Sheet Review I**

|  |  |  |  |  |  |
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| Project Ref. No: 4 | Project Title:  Railway Reservation Manage System | Date of Preparation of Activity Plan | | | |
| No. | Task | Actual Start Date | Actual Days | Team Member Names | Status |
| 01 | Acknowledgment | July 25, 2022 | 2 | All Members | Completed |
| 02 | Problem Definition | All Members | Completed |
| 05 | Hardware/Software | All Members | Completed |
| 06 | Task sheet | All Members | Completed |

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| --- | --- | --- |
|  | Prepare By: Group 1 | Approved By: Faculty |
| Date: Nov 8, 2019 | Team Leader  Nguyen Hoang Thien An | Mr. Hoang Duc Quang |