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|  | **MINISTRY OF EDUCATION AND TRAINING** |

**FPT UNIVERSITY**

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| Capstone Project Document | |
| **Face Detection For Delivery Payment** | |
| **Group 5 - IS** | |
| **Group members** | Nguyễn Văn Hiếu – SE61961 (Leader)  Đinh Phú Thắng – SE62528  Trần Trọng Nghĩa – SE62278  Nguyễn Hữu Lâm– SE61234 |
| **Supervisor** | Nguyễn Huy Hùng |
| **Ext. Supervisor** | N/A |
| **Project Code** | FDDP |

– **Ho Chi Minh City, 20 January 2019** –

# **Introduction**

1. **Software Project Management**
2. **Problem Definition**
   1. **Name of this Capstone Project**

* Official name: Face Detection For Delivery Payment.
* Vietnamese name: Hệ Thống Hỗ Trợ Thanh Toán Thông Qua Nhận Diện Khuôn Mặt Khi Giao Hàng.
* Abbreviation: FDDP.
  1. **Problem Abstract**
  2. **Project Overview**
     1. **Current Situation**
     2. **The Proposed System**
        1. **Website**
* **For admin (manager)**
* Admin can manage account:
* Admin (Manager)
* View list of admin.
* Search admin with all field.
* View data of admin.
* User (Customer)
* View list of users.
* Search user with all field.
* View data of user.
* Shipper (Staff)
* View list of shippers.
* Search shipper with all field.
* View data of shipper.
* Add new shipper.
* Deactive shipper.
* Select shipper on list and deactive list.
* Admin can manage order:
* View order list by day.
* Search order with all field.
* Cancel order (show who made the actions).
* Select order on list and cancel list.
* Admin can manage store:
* View list of store partners of system.
* Search store with all field.
* View data of store.
* Add new data of store.
* Deactive store.
* Deactive store selected.
* Admin can manage product:
* View list of products of store.
* Search product with all field.
* View data of product.
* Add new product depend on store.
* Deactive product or list of products selected.
* Delete product or list of products selected.
* Admin can manage feedback:
* Can view feedback from users.
* Can make feedback for shipper.
  + - 1. **Mobile Application**
* **For driver (staff)**
* Shipper can register information at the company and Admin will make new account for shipper with this information.
* Shipper can take orders of customer.
* Shipper can cancel orders of customer in the case allowed.
* Shipper can edit their information of account.
* Shipper can feedback the service.
* Shipper can active or deactive their account when they want.
* **For users (customer):**
* User can register new account with their mobile phone.
* User can log in or log out system of mobile phone.
* User can choose the food or item what they like to add to their cart.
* User can edit their information of account.
* User can feedback the service.
* User can make paying online with face detection.
  + 1. **Boundaries of the System**
    2. **Future Plans**
    3. **Development Environment**
       1. **Hardware requirements**

**For Server**

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| **Windows** | **Minimum Requirement** | **Recommended** |
| **Internet Connection** | Cable, Wi-Fi (6 Mbps) | Cable, Wi-Fi (16 Mbps) |
| **Operating System** | Windows 7 or above | Windows 7 or above |
| **Computer Processor** |  |  |
| **Computer Memory** | 8GB RAM | 16GB RAM |

**For Computer**

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| **Windows** | **Minimum Requirement** | **Recommended** |
| **Internet Connection** | Cable, Wi-Fi (6 Mbps) | Cable, Wi-Fi (16 Mbps) |
| **Operating System** | Windows 7 or above | Windows 7 or above |
| **Computer Processor** | Android 5 |  |
| **Computer Memory** | 4GB RAM | 8GB RAM |

**For Table/Mobile**

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| **Windows** | **Minimum Requirement** | **Recommended** |
| **Internet Connection** | Cable, Wi-Fi (6 Mbps) | Cable, Wi-Fi (16 Mbps) |
| **Operating System** | Android 7 | Android 8 |
| **Computer Processor** |  |  |
| **Computer Memory** | 4GB RAM | 8GB RAM |

* + - 1. **Software requirements**

**For Web**

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| --- | --- | --- |
| **Software** | **Name / Version** | **Description** |
| **Operating system** |  |  |
| **Environment** |  |  |
| **Modeling tool** |  |  |
| **IDE** |  |  |
| **DBMS** |  |  |
| **Source control** |  |  |
| **Web browser** |  |  |

**For Mobile Application**

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| **Software** | **Name / Version** | **Description** |
| **Operating system** |  |  |
| **Environment** |  |  |
| **Modeling tool** |  |  |
| **IDE** |  |  |
| **DBMS** |  |  |
| **Source control** |  |  |
| **Web browser** |  |  |

1. **Project Organization**

## **2.1 Software Process Model**

## **2.2 Roles and Responsibilities**

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| **No** | **Full name** | **Role in Group** | **Responsibilities** |
| **1** | Nguyễn Huy Hùng | Project manager | • Specify user requirement  • Control the development process  • Give out technique and business analysis support |
| **2** | Nguyễn Văn Hiếu | Team Leader, BA, DEV, Tester | • Managing process  • Designing database  • Clarifying requirements  • Prepare documents  • GUI Design  • Create test plan  • Coding  • Testing |
| **3** | Đinh Phú Thắng | Developer/Tester | • Coding  • Testing |
| **4** | Trần Trọng Nghĩa | Developer/Tester | • Coding  • Testing |
| **5** | Nguyễn Hữu Lâm | Developer/Tester | • Coding  • Testing |

## **2.3 Tools and Techniques**

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| **Tool / Technique** | **Name / version** |
| **Frontend** | HTML, Thymeleaf, Bootstrap. |
| **Backend (Web)** | Java Springboot MVC, API, My SQL |
| **Backend (Mobile Application)** | Android JavaEE , API, My SQL |

1. **Project Management Plan**

**3.1 Software development life cycle**

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| **Phase** | **Description** | **Deliverables** | **Resource needed** | **Dependencies and constraint** | **Risks** |
| **Requirement analysis** |  |  |  |  |  |
| **Design** |  |  |  |  |  |
| **Implementation** |  |  |  |  |  |
| **Test and complete document** |  |  |  |  |  |
| **Maintenance** |  |  |  |  |  |

**3.2 Phase Detail**

**3.2.1. Phase 1: Requirement Analysis**

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| **Task** | **Description** | **Deliverables** | **Author** |
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**3.2.2. Phase 2: System Design**

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| **Task** | **Description** | **Deliverables** | **Author** |
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**3.2.3. Phase 3: Implementation**

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| **Task** | **Description** | **Deliverables** | **Author** |
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**3.2.4. Phase 4: Test and complete document**

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| **Task** | **Description** | **Deliverables** | **Author** |
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**3.2.5. Phase 4: Maintenance**

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| **Task** | **Description** | **Deliverables** | **Author** |
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1. **Coding Convention**