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

**FPT UNIVERSITY**

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| Capstone Project Document | |
| **Face Detection For Delivery Payment** | |
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# **E. Report No. 5 System Implementation & Test**

# **1. Introduction**

## **1.1 Overview**

This section provides in detail all necessary information about implementation information and testing procedure of FPS includes test plans, test cases, test result and risks estimations.

## **1.2 Test Approach**

- We use black box / white box….

# **2. Database Relationship Diagram**

## **2.1 Physical Diagram**

Figure Physical Diagram

## **2.2 Data Dictionary**

|  |  |  |
| --- | --- | --- |
| **Entity Data Dictionary: Describe content of all tables** | | |
| **No.** | **Table Name** | **Description** |
| 1 | Fr\_account | Contain account information |
| 2 | Fr\_city | Contain city information |
| 3 | Fr\_district | Contain district data of city |
| 4 | Fr\_order | Contain data of order’s list |
| 5 | Fr\_order\_detail | Contain data of order |
| 6 | Fr\_payment\_information | Contain data of payment |
| 7 | Fr\_payment\_type | Type of payment |
| 8 | Fr\_price\_level | Select price level for shipper |
| 9 | Fr\_product | Contain data of every product of store |
| 10 | Fr\_rating | Contain data rating of account for product and store |
| 11 | Fr\_role | Contain data role of member |
| 12 | Fr\_schedule | Contain open and close time of store |
| 13 | Fr\_shipper | Contain data of shipper |
| 14 | Fr\_source | Contain source of data |
| 15 | Fr\_store | Contain data of store |
| 16 | Fr\_weekday | Contian id for everyday (Monday, Tuesday, Sunday,…) |

Figure Data Dictionary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Entity | Attribute | Type | Visibility | Description |
| Fr\_payment\_type | id | integer | public | Unique identifier of a payment type. |
| type | String | public | Type of Payment |
| name | String | public | Name of payment’s type. |
| description | String | public | Description of payment’s type. |

Table Payment Type Attribute

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Entity | Attribute | Type | Visibility | Description |
| Fr\_payment\_information | id | integer | public | Unique identifier of a payment information. |
| Fr\_Account\_id | integer | public | Linked to table of account |
| Fr\_Payment\_Type\_id | integer | public | Linked to table of payment type |
| username | String | public | Username of account. |
| password | String | public | Password of account. |

Table Payment Information Attribute

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Entity | Attribute | Type | Visibility | Description |
| Fr\_account | id | integer | public | Unique identifier of account. |
| Phone\_number | String | public | Phone number of account. |
| Fr\_Role\_id | integer | public | Linked to table of role. |
| password | String | public | Password of account. |
| name | String | public | Full name. |
| email | String | public | Email of account. |
| extra\_point | integer | public | Extra point of account. |
| report\_point | integer | public | Report point of account |
| user\_image | Longblob | public | Image of account. |
| nation\_id | String | public | Nation Id Card of account. |
| nation\_id\_created\_date | Bigint | public | Create Date of Nation Id Card |
| date\_of\_birth | Bigint | public | Brithday of account. |
| create\_time | Bigint | public | Create time of account. |
| update\_time | Bigint | public | Update time of account. |
| delete\_time | Bigint | public | Delete time of account. |
| note | String | public | Note of account. |
| status | integer | public | Status of account. |
| editor\_id | integer | public | Id of editor’s account. |
| avatar | Longblob | public | Avatar of account. |

Table Account Attribute

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Entity | Attribute | Type | Visibility | Description |
| Fr\_city | id | integer | public | Unique identifier of city. |
| name | String | public | Name of city. |
| postal\_code | String | public | Postal code of city |

Table City Attribute

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Entity | Attribute | Type | Visibility | Description |
| Fr\_district | id | integer | public | Unique identifier of city. |
| name | String | public | Name of city. |
| Fr\_City\_id | integer | public | Linked to table of city. |

Table District Attribute

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Entity | Attribute | Type | Visibility | Description |
| Fr\_order | id | integer | public | Unique identifier of order. |
| editor\_id | integer | public | Id of editor account. |
| Fr\_Account\_id | integer | public | Linked to table of account(customer). |
| Fr\_Shipper\_id | integer | public | Linked to table of shipper. |
| buyer\_face | Longblob | public | Face’s Image of customer. |
| bill | String | public | Bill of customer. |
| order\_code | String | public | Code of order. |
| total\_price | double | public | Total of price. |
| book\_time | Bigint | public | Book time of order |
| receive\_time | Bigint | public | Receive time of order |
| shipper\_earn | double | public | Shipper earn from order. |
| shipper\_address | String | public | Address of delivery. |
| Fr\_District\_id | integer | public | Linked to table of district. |
| longitude | double | public | Longitude of earth. |
| latitude | double | public | Latitude of earth. |
| customer\_description | String | public | Description of customer. |
| create\_time | Bigint | public | Create time of order. |
| update\_time | Bigint | public | Update time of order. |
| delete\_time | Bigint | public | Delete time of order. |
| note | String | public | Note of order. |
| status | integer | public | Status of order. |

Table Order Attribute

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Entity | Attribute | Type | Visibility | Description |
| Fr\_order\_detail | id | integer | public | Unique identifier of order detail. |
| Fr\_Order\_id | integer | public | Linked to table of order |
| Fr\_Product\_id | integer | public | Linked to table of product |
| unit\_price | double | public | Unit\_price of product. |
| quantity | integer | public | Quantity of product. |

Table Order Detail Attribute

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Entity | Attribute | Type | Visibility | Description |
| Fr\_price\_level | id | integer | public | Unique identifier of price level. |
| level\_name | String | public | Name of price level |
| description | String | public | Description of price level. |
| price | double | public | Price of level. |

Table Price Level Attribute

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Entity | Attribute | Type | Visibility | Description |
| Fr\_product | id | integer | public | Unique identifier of product. |
| Fr\_Store\_id | integer | public | Linked to table of store. |
| price | double | public | Price of product. |
| product\_image | longblob | public | Image og product. |
| rating | double | public | Rating for product. |
| rating\_count | integer | public | Number of rating for product |
| description | String | public | Description for product. |
| create\_time | bigint | public | Create time of product. |
| update\_time | bigint | public | Update time of product |
| delete\_time | bigint | public | Delete time of product |
| note | String | public | Note of product. |
| status | integer | public | Status of product. |
| editor\_id | integer | public | Id of editor’s product. |

Table Product Attribute

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Entity | Attribute | Type | Visibility | Description |
| Fr\_rating | id | integer | public | Unique identifier of rating. |
| Fr\_Store\_id | integer | public | Linked to table of store. |
| Fr\_Account\_id | integer | public | Linked to table of account. |
| Fr\_Product\_id | integer | public | Linked to table of product. |
| rating | double | public | Rating for product. |

Table Rating Attribute

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Entity | Attribute | Type | Visibility | Description |
| Fr\_role | id | integer | public | Unique identifier of rating. |
| name | String | public | Name of role. |

Table Role Attribute

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Entity | Attribute | Type | Visibility | Description |
| Fr\_Schedule | id | integer | public | Unique identifier of schedule. |
| Fr\_Store\_id | integer | public | Linked to table of store. |
| Fr\_Weekenday\_id | integer | public | Linked to table of account. |
| open\_hour | integer | public | Open time of store |
| open \_mintues | integer | public | Open time of store |
| close \_hour | integer | public | Close time of store |
| close\_ mintues | integer | public | Close time of store |

Table Schedule Attribute

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Entity | Attribute | Type | Visibility | Description |
| Fr\_Shipper | id | integer | public | Unique identifier of shipper. |
| Fr\_Store\_id | integer | public | Linked to table of store. |
| introduce | String | public | Introduce of shipper. |
| sum\_revenue | integer | public | Sum Revenue of shipper |
| nation\_id\_front\_image | longblob | public | Front image of Nation Id Card |
| nation\_id\_back\_image | longblob | public | Back image of Nation Id Card |
| bike\_registration\_id | String | public | Number of Bike Registration Card |
| bike\_registration\_date | bigint | public | Date of Bike Registration Card |
| bike\_registrion\_front\_image | longblob | public | Front image of Bike Id Card |
| bike \_ registrion\_back\_image | longblob | public | Back image of Bike Id Card |
| Fr\_Source\_id | integer | public | Linked to table of source. |
| Fr\_Price\_Level\_id | integer | public | Linked to table of price level. |

Table Shipper Attribute

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Entity | Attribute | Type | Visibility | Description |
| Fr\_source | id | integer | public | Unique identifier of source. |
| name | String | public | Name of source. |
| description | String | public | Description of source. |

Table Source Attribute

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Entity | Attribute | Type | Visibility | Description |
| Fr\_Store | id | integer | public | Unique identifier of store. |
| store\_name | String | public | Name of store. |
| address | String | public | Description of store. |
| Fr\_District\_id | integer | public | Linked to table of district. |
| longitude | double | public | Longitude of store. |
| latitude | double | public | Latitude of store. |
| store\_image | longblob | public | Image of store. |
| rating | double | public | Rating for store. |
| rating\_count | integer | public | Number of rating for store |
| phone | String | public | Phone of store. |
| create\_time | Bigint | public | Create time of store. |
| update\_time | Bigint | public | Update time of store. |
| delete\_time | Bigint | public | Delete time of store. |
| note | String | public | Note of store. |
| status | integer | public | Status of store. |
| editor\_id | integer | public | Id of editor store. |

Table Store Attribute

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Entity | Attribute | Type | Visibility | Description |
| Fr\_weekday | id | integer | public | Unique identifier of source. |
| name | String | public | Name of source. |

Table Weekday Attribute

# **3. Performance Measures**

## **3.1 Features to be tested**

## **3.2 Features not to be tested**

# **4. Test Plan**

# **5. System Testing Test Case**