|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Product Deliverables** | **Task** | **Đỗ Ngọc Hoàng** | **Trần Quang Trường** | **Đoàn Minh Đức** | **Unit** | **Size** |
| Report1 - Introduction | Project Information | **O** |  |  |  |  |
| Introduction |  |  | **O** |  |  |
| Current Situation |  | **O** |  |  |  |
| Problem Definition | **O** |  |  |  |  |
| Proposed Solution | **O** |  |  |  |  |
| Functional Requirements |  |  | **O** |  |  |
| Role and Responsibility |  |  | **O** |  |  |
| Report2- Software Project Management Plan | Problem Definition |  |  | **O** |  |  |
| Project organization | **O** |  |  |  |  |
| Project Management Plan | **O** |  |  |  |  |
| Coding Convention |  | **O** |  |  |  |
| Report 3- Software Requirement Specification | User Requirement Specification | **O** |  |  |  |  |
| **System Requirement Specification** |  |  |  |  |  |
| External Interface Requirement |  | **O** |  |  |  |
| System Overview Use Case |  | **O** |  |  |  |
| **List of Use Case** |  |  |  |  |  |
| **Unauthorized User** |  |  |  |  |  |
| <Unauthorized User> Login (GBTS01) | **O** |  |  |  |  |
| <Unauthorized User> Activate account (GBTS02) |  | **O** |  |  |  |
| **Authorized User** |  |  |  |  |  |
| <Authorized User> Edit profile (GBTS03) |  | **O** |  |  |  |
| <Authorized User> Logout (GBTS04) |  | **O** |  |  |  |
| **Passenger** |  |  |  |  |  |
| <Passenger>Get NFC card (GBTS05) | **O** |  |  |  |  |
| <Passenger>Add credit (GBTS06) | **O** |  |  |  |  |
| <Passenger>Edit card name (GBTS07) | **O** |  |  |  |  |
| <Passenger>Get outcome report (GBTS08) | **O** |  |  |  |  |
| <Passenger>Find bus (GBTS09) |  | **O** |  |  |  |
| <Passenger>Get route (GBTS10) |  | **O** |  |  |  |
| <Passenger>Look up bus route (GBTS11) |  | **O** |  |  |  |
| <Passenger>Register subscription (GBTS12) | **O** |  |  |  |  |
| <Passenger>Cancel subscription (GBTS13) | **O** |  |  |  |  |
| **Staff** |  |  |  |  |  |
| <Staff> Add card (GBTS14) |  | **O** |  |  |  |
| <Staff> Activate/Deactivate card (GBTS15) |  | **O** |  |  |  |
| <Staff> Search passenger (GBTS16) |  | **O** |  |  |  |
| <Staff> Edit passenger (GBTS17) |  | **O** |  |  |  |
| <Staff> Publish scratch cards (GBTS18) |  | **O** |  |  |  |
| **Manager** |  |  |  |  |  |
| <Employee> Add ticket type (GBTS19) |  |  | **O** |  |  |
| <Employee> Edit ticket type (GBTS20) |  |  | **O** |  |  |
| <Employee> Delete ticket type (GBTS21) |  |  | **O** |  |  |
| <Employee> Add credit plan (GBTS22) |  |  | **O** |  |  |
| <Employee> Edit credit plan (GBTS23) |  |  | **O** |  |  |
| <Employee> Delete credit plan (GBTS24) |  |  | **O** |  |  |
| <Employee> Get income report (GBTS25) |  |  | **O** |  |  |
| <Employee> Create promotion (GBTS26) |  |  | **O** |  |  |
| **Admin** |  |  |  |  |  |
| <Admin> Search account (GBTS27) |  |  | **O** |  |  |
| <Admin> Add account (GBTS28) |  | **O** |  |  |  |
| <Admin> Activate/Deactivate account (GBTS29) | **O** |  |  |  |  |
| **Auto Handler** |  |  |  |  |  |
| <Auto Handler> Parse bus route (GBTS30) | **O** |  |  |  |  |
| <Auto Handler> Suggest promotion (GBTS31) | **O** |  |  |  |  |
| <Auto Handler> Send notification (GBTS32) | **O** |  |  |  |  |
| **Emulator** |  |  |  |  |  |
| <Emulator> Write card (GBTS33) |  |  | **O** |  |  |
| <Emulator> Verify ticket (GBTS34) |  |  | **O** |  |  |
| Software System Attribute |  |  | **O** |  |  |
| Conceptual Diagram | **O** |  |  |  |  |
| Report 4- Software Design Description | Design Overview |  | **O** |  |  |  |
| **System Architectural Design** |  |  |  |  |  |
| Web Application Architecture Description | **O** |  |  |  |  |
| Web Service Architecture Description | **O** |  |  |  |  |
| Mobile Application Architecture Description | **O** |  |  |  |  |
| Component Diagram | **O** | **O** | **O** |  |  |
| **Detailed Description** |  |  |  |  |  |
| Class Diagram | **O** | **O** | **O** |  |  |
| Class Diagram Explanation |  |  | **O** |  |  |
| **Implement** |  |  |  |  |  |
| **Website** |  |  |  |  |  |
| **Unauthorized User** |  |  |  |  |  |
| <Unauthorized User> Activate account |  | **O** |  |  | 2 |
| **Authorized User** |  |  |  |  |  |
| <Authorized User> Edit profile |  | **O** |  |  | 1 |
| **Passenger** |  |  |  |  |  |
| <Passenger>Get NFC card | **O** |  |  |  | 2 |
| <Passenger>Add credit | **O** |  |  |  | 4 |
| <Passenger>Edit card name |  |  | **O** |  | 1 |
| <Passenger>Get outcome report |  | **O** |  |  | 3 |
| <Passenger>Find bus |  | **O** |  |  | 3 |
| <Passenger>Get route |  | **O** |  |  | 3 |
| <Passenger>Look up bus route |  | **O** |  |  | 3 |
| <Passenger>Register subscription | **O** |  |  |  | 2 |
| <Passenger>Cancel subscription | **O** |  |  |  | 2 |
| **Staff** |  |  |  |  |  |
| <Staff> Add card |  |  | **O** |  | 3 |
| <Staff> Activate/Deactivate card |  |  | **O** |  | 1 |
| <Staff> Search passenger |  |  | **O** |  | 1 |
| <Staff> Edit passenger | **O** |  |  |  | 1 |
| <Staff> Publish scratch cards | **O** |  |  |  | 3 |
| **Manager** |  |  |  |  |  |
| <Employee> Add ticket type |  | **O** |  |  | 1 |
| <Employee> Edit ticket type |  | **O** |  |  | 1 |
| <Employee> Delete ticket type |  | **O** |  |  | 1 |
| <Employee> Add credit plan |  |  | **O** |  | 1 |
| <Employee> Edit credit plan |  |  | **O** |  | 1 |
| <Employee> Delete credit plan |  |  | **O** |  | 1 |
| <Employee> Get income report | **O** |  |  |  | 3 |
| <Employee> Create promotion | **O** |  |  |  | 1 |
| **Admin** |  |  |  |  |  |
| <Admin> Search account |  | **O** |  |  | 1 |
| <Admin> Add account | **O** |  |  |  | 1 |
| <Admin> Activate/Deactivate account |  |  | **O** |  | 1 |
| **Auto Handler** |  |  |  |  |  |
| <Auto Handler> Parse bus route | **O** |  |  |  | 3 |
| <Auto Handler> Suggest promotion | **O** |  |  |  | 2 |
| <Auto Handler> Send notification |  | **O** |  |  | 3 |
| **Emulator** |  |  |  |  |  |
| <Emulator> Write card |  |  | **O** |  | 5 |
| <Emulator> Verify ticket |  |  | **O** |  | 5 |
| **Interface** |  |  |  |  |  |
| Component interface | **O** |  |  |  |  |
| **User Interface Design** |  |  |  |  |  |
| Web Application Design | **O** |  |  |  |  |
| Unauthorized User |  | **O** |  |  |  |
| Authorized User |  |  | **O** |  |  |
| Passenger |  | **O** |  |  |  |
| Staff | **O** |  | **O** |  |  |
| Manager |  |  | **O** |  |  |
| Admin | **O** |  |  |  |  |
| **Mobile Application Design** |  |  |  |  |  |
| Passenger |  | **O** |  |  |  |
| Staff Application |  |  | **O** |  |  |
| **Emulator Application Design** |  |  | **O** |  |  |
| **Database Design** |  |  |  |  |  |
| Entity relationship diagram (ERD) | **O** | **O** | **O** |  |  |
| Data Dictionary |  |  | **O** |  |  |
| **Algorithms** |  |  |  |  |  |
| AES Encryption | **O** |  |  |  |  |
| Token Authentication |  | **O** |  |  |  |
| Report 5 - Software Implementation and Test Document | Introduction |  |  | **O** |  |  |
| **Database Relationship Diagram** |  |  |  |  |  |
| Physical Diagram | **O** | **O** | **O** |  |  |
| Data Dictionary | **O** |  |  |  |  |
| **Performance Measures** |  |  |  |  |  |
| Web application page load speed | **O** |  |  |  |  |
| Mobile API speed |  | **O** |  |  |  |
| Test Plan |  |  | **O** |  |  |
| **System Testing Test Case** |  |  |  |  |  |
| Communication Diagram | **O** |  | **O** |  |  |
| **Test Cases** |  |  |  |  |  |
| Web Application Test Cases |  |  |  |  |  |
| <Unauthorized User> Login | **O** |  |  |  |  |
| <Staff> Add card |  |  | **O** |  |  |
| <Staff> Activate/Deactivate card | **O** |  |  |  |  |
| <Passenger>Add credit | **O** |  |  |  |  |
| **Mobile application Test Cases** |  |  |  |  |  |
| <Passenger>Login |  | **O** |  |  |  |
| <Passenger>Add credit |  | **O** |  |  |  |
| <Passenger>Buy ticket by phone |  | **O** |  |  |  |
| <Passenger>Top up card |  | **O** |  |  |  |
| <Emulator>Verify ticket |  |  | **O** |  |  |
| <Emulator>Verify mobile ticket |  |  | **O** |  |  |
| Report 6 - Software User's Manual | **Installation Guide** |  |  |  |  |  |
| Setting up environment at server side |  | **O** |  |  |  |
| Web Application Deployment Process |  | **O** |  |  |  |
| Setting up environment at client side | **O** |  |  |  |  |
| **User Guide** |  |  |  |  |  |
| **Website** |  |  |  |  |  |
| Employee |  |  | **O** |  |  |
| Manager |  |  | **O** |  |  |
| Admin |  |  | **O** |  |  |
| **Mobile Application** |  | **O** |  |  |  |