**Software Architecture Document**

**TafeSA Online Enrolment System**

**Revision History**

|  |  |  |
| --- | --- | --- |
| **Date** | **Version** | **Author** |
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**Section A – Stakeholder Identification/Communication Plan**

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| --- | --- | --- | --- |
| **Stakeholder** | **Description** | **Communication Strategies (Digital vs Non Digital)** | **Comments** |
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**Section B - Determine/Design the Business Model and Architecture**

###### **Section C - Create the user experience model for above Use Cases**

*Copy your User Experience UML Models Here*

##### **Section D – Design and Implementation Mechanisms (Done by Individual)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Analysis Mechanisms** | **Design Mechanisms** | **Implementation Mechanism** | **Justification for choice and influence of Organizational procedures and standards** |
| Persistence |  |  |  |
| External System interaction |  |  |  |
| Legacy Systems interaction |  |  |  |
| Cultural Specific and Worldwide considerations (Onshore and Offshore partner campus in Vietnam) and Distribution |  |  |  |
| System Parameter Management |  |  |  |
| Authentication |  |  |  |
| Authorization |  |  |  |
| Transaction Management |  |  |  |
| Error Handling |  |  |  |
| Concurrency |  |  |  |
| User Interface/User Experience |  |  |  |
| Security |  |  |  |

##### **Section E– Identify Design Elements and interconnecting Components**

*Copy your Design/Component UML Models Here*

##### **Section F –Model the use case realization (Done by Individual)**

*Copy your Use Case Realizations UML Models Here*

##### **Section G – Class Design (Done by Individual)**

*Copy your Class UML Models Here*

##### **Section H – Database Design**

*Copy your Database Models Here*

**Section I – Supplementary Specifications (Non-Functional Requirements)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Specification** | **Implementation Strategy** | **How is it measured** | **Benchmark Value** |
| Functionality |  |  |  |
| Usability |  |  |  |
| Reliability |  |  |  |
| Performance |  |  |  |
| Scalability |  |  |  |
| Re-usability |  |  |  |
| Testability |  |  |  |
| Security |  |  |  |
| Adaptability to different locations (Onshore and Offshore site in Vietnam) |  |  |  |
| Copyright and Intellectual property protection |  |  |  |
| Pre-release Testing (Refer to Section 2.1.4 of the Organizational Standards Document) |  |  |  |

**Section J – Deployment**

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| --- | --- | --- |
| **Hardware Requirements** | **Software Requirements** | **Notes** |
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*Also upload your Deployment UML models here*

**Section K – Analyse and Document the Impact of the new system**

**Section L – Work Breakdown Structure (WBS) , Gantt Charts and Project metrics/costs calculations**

**Section M – Verification/Validation and Signoff**

*Please tick-off Sections A-L completed*

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Use Case** | **A** | **C** | **D** | **E** | **F** | **G** | **H** | **I** | **J** | **K** | **L** | **Project Lead Comments/Signoff** |
| View Report Card |  |  |  |  |  |  |  |  |  |  |  |  |
| Select Courses to Teach |  |  |  |  |  |  |  |  |  |  |  |  |

**Section N – Post Project Analysis**