### 1 OVERVIEW OF ITERATIVE APPROACH

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| **Stage** | **Date** | | **Iteration #** | **Objectives of Iteration** | **Scope of Work** | **Milestones** | **Iteration Assessment**  **(To be completed at the end of each iteration)** | |
| Start | End | Achievement | **Impact to Subsequent Iteration** |
| Business Modelling | Day 1 | Day 2 | 1 | -Understanding core offerings, strategies, infrastructure, organizational structures, trading practices, and operational processes and policies. | -Complete understanding of business context of the problem and solution | -Indentify main actors in system  -Identify As-Is behaviour of the business  -Identify To-Be behaviour of the business after introducing the system | -Understanding how new system will integrate with customer work processes. | -Gives a clear view on how business will function as a whole after introducing the system.  -Acts as a reality check to Requirements. |
| Requirements Discovery | Day 2 | Day 3 | 2 | -Discover, identify and agree on business requirements | -Complete understanding of components of required solution | -Discover processes involved in the solution  -Discover data involved in the solution  -Discover integration points with other systems if any.  - Define Business Requirements Document  - Define Functional Specification  -Define Technical Specification | -Understanding and aligning As-Is situation, required changes and To-Be solution. | -Provide a clear view of changes to make to realize the final solution. |
| Analysis and Design | Day 3 | Day 4 | 3 | -Analyse requirements and design To-Be solution | -Complete understanding of To-Be solution | -Develop ER diagram  -Develop Class Diagram  -Develop Sequence Diagram  -Develop Look & Feel  -Develop system Architecture  - Develop Detailed Design Document | -Unambiguously define components of the To-Be system. | -Provide a description of what is to implement. |
| Implementation | Day 4 | Day 5 | 4 | -Implement the To-Be solution | -Complete implementation of required design | -Implement User Interface  -Implement Business logic  -Implement application related logic  -implement system integrations  -Unit testing | -implementation of required design and requirements. | -Provide the system implementation to test. |
| Testing | Day 5 | Day 6 | 5 | -Test the To-Be Solution | -Complete testing of system implementation | -Integration testing | -Testing and solving all bugs and issues. | - Provide the clean solution that is ready to deploy and use. |
| Configuration and Change Management | Day 7 | Day 7 | 6 | -Configure and deploy the To-Be solution and carry out change management procedures | -Complete configuration of tested solution | -Configure the solution  -Deploy the solution  -Test deployed solution  - train users on new solution  - launch the new solution | -Configuring and deploying solution and training users. | -Getting the users ready to start using the solution in production mode. |

### 2 ITERATION #1

2.1 **Iteration Activities**

Iterations are structured such that that the user can start seeing and using some of the system modules before the overall system is realized. This gives the customer a chance to make sure that the solution being developed is what he/she really wants and also helps to tackle problems early on before the total solution is delivered by the end of all iterations (i.e. being Agile)

For this iteration, the modules covered are:

* Authentication and Authorization Module
* User Management Module
* Course Management Module

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| Activity | Start Date | End Date | Deliverables | Owner |
| Business Modelling & Requirements Discovery | 30 Dec | 1 Jan | Business Requirements Document  Functional Specification  Technical Specification | Badran, Shadi |
| Analysis & Design | 1 Jan | 2 Jan | Detailed Design Document | Badran, Shadi, Orifhon, Alemayehu |
| Implementation | 2 Jan | 3 Jan | Source Codes, Unit Test Package | Vida, Prakriti |
| Testing | 3 Jan | 4 Jan | Test Plan, Test Package, Test Report, Tested Architectural Prototype | Alemayehu, Orifhon |
| Configuration and Change Management | 5 Jan | 5 Jan | Deployed solution, User Guides and Training Manuals | Vida, Prakriti, Badran, Shadi, Alemayehu, Orifhon |

2.2 **Resources Required**

Development Server, Staging Server, Staff to train.

### 3 ITERATION #2

3.1 **Iteration Activities**

Iterations are structured such that that the user can start seeing and using some of the system modules before the overall system is realized. This gives the customer a chance to make sure that the solution being developed is what he/she really wants and also helps to tackle problems early on before the total solution is delivered by the end of all iterations (i.e. being Agile)

For this iteration, the modules covered are:

* Search Module
* Transaction Tracking Module
* Feedback Module

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| Activity | Start Date | End Date | Deliverables | Owner |
| Business Modelling & Requirements Discovery | 6 Dec | 8 Jan | Business Requirements Document  Functional Specification  Technical Specification | Badran, Shadi |
| Analysis & Design | 8 Jan | 9 Jan | Detailed Design Document | Badran, Shadi, Orifhon, Alemayehu |
| Implementation | 9 Jan | 10 Jan | Source Codes, Unit Test Package | Vida, Prakriti |
| Testing | 10 Jan | 11 Jan | Test Plan, Test Package, Test Report, Tested Architectural Prototype | Alemayehu, Orifhon |
| Configuration and Change Management | 12 Jan | 12 Jan | Deployed solution, User Guides and Training Manuals | Vida, Prakriti, Badran, Shadi, Alemayehu, Orifhon |

3.2 **Resources Required**

Development Server, Staging Server, Staff to train, Production Server.