Course Design Document – Restful Webservice & Microservices

1. About the Document:

This design document specifies all the decisions made about the course up to this time, including:

- Purpose of the course
- Intended outcome of the course
- Audience description
- Delivery method(s)
- What to train
  - High-level outline
  - Detailed lesson outlines
- Objectives of each lesson
- Assessments/exercises for each task

2. Purpose of the Design Document:

The purpose of the design document is to obtain agreement with all stakeholders about the vision and plan for the course. These parties include:

- Internal clients (BU SMEs) and reviewers
- Team members (iLD) working on the course
- External clients, if any

3. Sign-off:

At this point, obtaining a sign-off on the design document is important in ensuring agreement on the plan. Once an agreement is secured from key stakeholders work on developing the course materials can begin.

An approved course design document is required to release a course as an official curriculum

Key stakeholders for Design sign-off

- Designated Leader from BU (for BU-developed courses)
- Head of iLD

Contents of a Design Document

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Purpose of the Course:

RESTful web services try to define services using the different concepts that are already present in HTTP. REST is an architectural approach, not a protocol. Associates undergoing this course will learn Restful Webservice & Microservices from the very beginning, step-by-step from the very fundamentals, all the way to building modern and complex web applications

Audience Description:

The course is set for all entry-level associates at Intellect. The course is appropriate for associates who begin their career here at Intellect.

Course Objectives:

During this course, the learner will:

- Learn Restful Webservice & Microservices from the very beginning
- Understand step-by-step from the very fundamentals
- Be building modern and complex web applications

Learning Assessment:

There are assessments included as part of the final assessment after the training completion

Instructional Strategies:

This is an instructor-led in-person/virtual course with multiple illustrations. The following methods will be employed at various places in the course:

- Cases are taken as illustrations
- Facilitator-led discussion
- Common illustration discussions

Media:

The course will utilize the following media

- Slide Presentation/Images/platforms to run scripts

Duration:

This course is divided into 7 blocks, taking approximately 9.5 hours in total.

- Pre-Training Activity: There is no pre-training activity
- Post-Training Activity: There is no pre-training activity

Course Scope:

The course contains 7 lessons. The lesson brief is given below:

Lesson	Topic List	Delivery Method	Duration	Practice check Method	Annexure
1	REST Intro	Trainer-led session	30 minutes	NA	NA
2	CRUD Operations in Spring Rest	Trainer-led session	90 minutes	NA	NA
3	What are Microservices	Trainer-led session	30 minutes	NA	NA
4	Principles of Microservices	Trainer-led session	30 minutes	NA	NA
5	Advantages and Disadvantages of Microservices	Trainer-led session	30 minutes	NA	NA
6	Components of Microservices	Trainer-led session	30 minutes	NA	NA
7	Creating a Microservice	Trainer-led session	120 minutes	NA	NA

Activities Conducted:

Activity #	Activity	Objective	Duration	Annexure
1	CRUD Operations in Spring Rest	Hands-on	90 minutes	NA
2	Creating a Microservice	Hands-on	120 minutes	NA

Development Tools

The course was prepared in PPT and edited with video editing tools.

Ownership

The design and development of the course is by iLD Team - Intellect

Course approved by Dr. Vinay Menon – SVP iLD

Course revision from time to time by Ashok T - VP iLD

Approved facilitator:

Development Time

30 man-days (for course creation and editing as per guidelines)

Support Requirements

The course was developed completely by iLD Team - Intellect

Course Sign-off

Approved by:

Date:

Place:

Annexure

Not applicable