**Web Application Design**

Scenario Brief

Project

© FDM Group Ltd 2014. All Rights Reserved.

Any unauthorised reproduction or distribution in part  
or in whole will constitute an infringement of copyright.

**Table of Contents**

Project Brief 3

1.1 Aims, objectives and key topics 3

1.2 Project overview 3

2 Scenarios & Assessment 4

2.1 Possible Scenarios 4

2.2 Expectation 6

2.3 Assessment 6

# Project Brief

## Aims, objectives and key topics

|  |  |
| --- | --- |
| **Aims** | This project introduces trainees to application design concepts such as modelling requirements using UML and developing applications using common web technologies. |
| **Learning objectives** | After completion of the project, delegates should be able to:   * Document business requirements using UML * Design & build web pages using HTML5 and CSS3 suitable for a range of devices * Develop valid and well formed XML data structures * Transform XML data using XSLT * Implement basic dynamic behaviour using JavaScript & JQuery |
| **Topics covered** | * Modelling requirements using Unified Modelling Language (UML) for Use Cases and Activity Diagrams * Introduction to Hypertext Mark Up Language – HTML5 * Introduction to Cascading Style Sheets – CSS3 * Introduction to Responsive Web Design * Introduction to XML, XSD & XSLT * Introduction to JavaScript & JQuery |

## Project overview

|  |  |
| --- | --- |
| Length of project | 4 half-days |
| **Pre-requisites** | Phases of the project may be undertaken as soon as delegates have covered the relevant material for that phase. |

# Scenarios & Assessment

This section details possible scenarios to be fleshed out and implemented by each delegate.

Where a delegate wishes to propose an alternate scenario, the implementation should exhibit all the aspects of a solution required for assessment.

## Possible Scenarios

The following scenarios are available for delegates. For all scenarios, delegates are encouraged to define additional requirements that would fit the scenario.

### eCommerce Site

Develop a simple eCommerce site (e.g. “FDM-azon”).

Registered users should be able to view and order products. Purchasers should be able to track progress of their order (“order received” ->”packing” -> “shipped”).

Users should be able to search for a product using free text search.

Registered users should be able to pay for items from a credit balance already added to their account, add funds to this and view the balance.

### Auction Site

Develop a simple auction site (e.g. “FDM-bay”).

Registered users should be able to view items and bid on them. Owners of items should be able to start an auction and track current bids against a target reserve price.

Users should be able to search for an item using free text search.

Registered users should be able to pay for items from a credit balance already added to their account, add funds to this and view the balance.

### Charity Donation Site

Develop a simple charity donation site (e.g. “FDM-giving”).

Registered users should be able to view good causes and donate to them. Owners of good causes should be able to track current donations against a target donation level.

Users should be able to search for a good cause based on name of cause, type of cause or name of person who set up the donation request using free text search.

Registered users should be able to pay for items from a credit balance already added to their account, add funds to this and view the balance.

### Blog Site

Develop a simple blogging site (e.g. “FDM-press”). Registered users should be able to view blogs and comment on them as well as add their own blog content. Owners of blogs should be able to track comments/likes/dislikes against an average level for their blog.

Users should be able to search for a blog based on topic, name of blog or blog owner using free text search.

Registered users should be able to spend “likes” from a credit balance already added to their account. Users can earn “likes” to spend on other people by accumulating “likes” themselves.

### Video Sharing Site\*

Develop a simple video sharing site (e.g. “FDM-tube”). Registered users should be able to view videos and comment on them as well as add their own video content. Owners of videos should be able to track comments/likes/dislikes against an average level for their blog.

Users should be able to search for a video based on genre, name or film maker using free text search.

Registered users should be able to spend “likes” from a credit balance already added to their account. Users can earn “likes” to spend on other people by accumulating “likes” themselves.

### Musicians Promotional Site\*

Develop a simple site to promote musicians (e.g. “FDM-book”). Registered users should be able to listen to music samples and comment on them as well as add their own music content. Owners of music content should be able to track comments/likes/dislikes against an average level for their site.

Users should be able to search for a music sample based on musician, type of musician or name of song using free text search.

Registered users should be able to spend “likes” from a credit balance already added to their account. Users can earn “likes” to spend on other people by accumulating “likes” themselves.

### FDM IT Policy

Several scenarios are flagged with \* (e.g. Video Sharing Site). Such sites are not expected to include an “upload” facility but simply reference urls to other locations.

Delegates are reminded of their obligations as part of our corporate IT policy when selecting external urls for inclusion.

## Expectation

Delegates are expected to specify the requirements, design and implement a web site using a range of techniques they have learnt about during their training.

## Assessment

Delegates are required to give a 10 minute presentation of their solution on the final day of the course.

The presentation is marked on various criteria. ***Consult your trainer regarding the current mark scheme and the standard expected.***

There is no requirement for additional visual aids beyond the solution itself. Hand written UML is acceptable.