

Experiment no: 5

Aim: To develop Work Breakdown Structure for SpyD: An automated security tool.

Introduction:

A work breakdown structure (WBS), in project management and systems engineering, is a deliverable-oriented decomposition of a project into smaller components. A work breakdown structure is a key project deliverable that organizes the team's work into manageable sections. The Project Management Body of Knowledge (PMBOK 5) defines the work breakdown structure as a "A hierarchical decomposition of the total scope of work to be carried out by the project team to accomplish the project objectives and create the required deliverables."

A work breakdown structure element may be a product, data, service, or any combination thereof. A WBS also provides the necessary framework for detailed cost estimating and control along with providing guidance for schedule development and control.

Work Breakdown Structure

1.0 SpyD : An automated Security tool

2.0 Conceptualize and Initialize project

2.1 Problem Definition

- 2.1.1 SpyD : An automated Security tool description
- 2.1.2 Existing System Vs Proposed System
- 2.1.3 Functional Requirement
 - 2.1.3.1 Hardware & System Requirement
 - 2.1.3.2 System Requirement
- 2.1.4 Non-functional Requirement
- 2.1.5 Security Requirement
- 2.1.6 Milestone: Problem definition agreed by organization and customer.

2.2 Business Case

- 2.2.1 Executive Summary
 - 2.2.1.1 Objectives
 - 2.2.1.2 Mission
 - 2.2.1.3 Keys to Success
- 2.2.2 SWOT analysis
 - 2.2.2.1 Strengths
 - 2.2.2.2 Weaknesses
 - 2.2.2.3 Opportunities
 - 2.2.2.4 Threats
- 2.2.3 College Analysis
 - 2.2.3.1 Analyzing traditional network security methods
- 2.2.4 Product Offering

- 2.2.5 Controls
- 2.2.6 Risk Assessment
- 2.2.7 Management Summary
- 2.2.8 Web Plan summary
- 2.2.9 Milestone: Clients Signs off the Business Case

2.3 Milestone: Business case completed.

3.0 Develop a project Charter and Plan

3.1 Project Charter Plan

- 3.1.1 Project Name and Description
- 3.1.2 Project Stakeholders
- 3.1.3 Measurable Organizational Value(MOV)
- 3.1.4 Project Scope
- 3.1.5 Resources Required
- 3.1.6 Project Schedule Summary
- 3.1.7 Project Budget Summary
- 3.1.8 Assumption and Risks
- 3.1.9 Project Administration
- 3.1.10 Acceptance and Approval
- 3.1.11 Reference
- 3.1.12 Terminology and Glossary
- 3.1.13 Milestone: Project Charter Plan approved by Organization and Employees

4.0 Analysis of Project

5.0 Design

5.1 Front-End Design

- 5.1.1 Homepage Layout
- 5.1.2 Registration Form Layout
- 5.1.3 CSS Layout
- 5.1.4 Catalogue Layout
- 5.1.5 Milestone: Front-End design plan completed.

5.2 Back-End Design

- 5.2.1 Server side Work plan
- 5.2.2 Information flow Work plan
- 5.2.3 Database work flow
- 5.2.4 Milestone: Back-End design plan completed.

5.3 Milestone: Design completed.

6.0 Construction

- 6.1 Homepage construction
- 6.2 Registration form and Validation
- 6.3 User login and Authentication
- 6.4 Catalogue Design
- 6.5 Search Box
- 6.6 Session Management
- 6.7 Milestone: Construction completed.

7.0 Testing

7.1 Test Plan

- 7.1.1 Links Test
- 7.1.2 Form validation Test

7.1.3 Database Connectivity Test

7.1.4 Session Management Test

7.1.5 Security Test

7.2 Test Result Report

7.2.1 Review Test plan with Client

7.2.2 Carry out Test plan

7.2.3 Analyze Result

7.2.4 Prepare Test Result Report and Presentation

7.2.5 Present test results to Client

7.2.6 Milestone: Client signatures on the Test Result

7.3 Milestone: Testing completed.

8.0 Implementation

8.1 Hosting of Website

8.2 Taking feedbacks from staff.

8.3 Milestone: Implementation completed.

9.0 Close project

10.0 Evaluate Project Success.

Conclusion:

Thus, developed Work Breakdown Structure for SpyD: An automated Security tool.