**Introduction**

This document captures the technical details related to the experiment development.

**Project**

**Domain Name** : Computer Science & Engineering

**Lab Name :** Physical Chemistry.

**Experiment Name :** Mass Spectroscopy conversion of Flash file to HTML-5, CSS and Java Script.

The experiment recorded in Adobe Flash is converted to HTML-5, CSS and Java Script.

**Purpose of the project**

The purpose of the project is to convert the Flash file (FLV)to HTML-5, CSS and Java Script.

**Project Developers Details**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| S No | Name | Year of Study | Role | Email-ID | Github handle |
|  | I.NAVYA KRUTI | First Year 2018-2019 | Lead Developer | navyaivaturi@gmail.com | navya-2000 |

**Technologies and Libraries**

Technologies :

HTML

CSS

Javascript

Libraries :

JQuery

Canvas.js

svg.js

svg

**Development Environment**

OS : <<Windows, LINUX so on...>>

Bandwidth: <<100Mbps>>

**Documents :**

|  |  |  |  |
| --- | --- | --- | --- |
| S No | Link to document | Role |  |
| 1 | Procedure | This document captures the instructions to run the simulations |  |
| 2 | Test cases | This document captures the functional test cases of the experiment simulation |  |
| 3. | Code documentation | This document captures the details related to code |  |

**Process Followed to convert the experiment**

Understand the assigned experiment in Flash simulation

Understanding the experiment concept

Re-implement the same in javascript, HTML & CSS.

**Value Added by our Project**

It would be beneficial for Computer Engineering students for developing projects.

Highly beneficial for tier 2 and tier 3 college students who can use this to learn and understand the concept of replacing Flash technology with HTML, CSS and javascript..

**Risks and Challenges**

Making the whole process dynamic by adding synchronized animations.

Allowing editing of shapes in real-time.

**Issues :**

Not much responsive on other browsers except chrome.

Cannot return to a previous step until page is reloaded.