**Experiment Project Documentation**

**Introduction**

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

**Project**

**Domain Name :** Chemical Science

**Lab Name :** Physical Chemistry Lab

**Experiment Name : Nuclear Magnetic Resonance Spectroscopy and Evaluation of Simple 1H NMR Spectra of Select Organic Compounds.**

**Purpose of the project**

The purpose of the project is to convert the **Nuclear Magnetic Resonance Spectroscopy** experiment simulation from **Adobe Flash** to **Javascript**.

**Project Developers Details**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.NO** | **Names** | **Year of Study** | **Role** | **Email-ID** | **github handles** |
| 1. | Sindhuja Nadgoud | 2nd Year B.Tech |  | snadgoud99@gmail.com | SindhujaNadgoud |

**Technologies and Libraries**

**Technologies :**

1. HTML
2. CSS
3. Javascript

**Libraries :**

1. [**ChartJs**](https://www.chartjs.org/)

**Development Environment**

**OS :** Windows

**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**

1. Understand the assigned experiment Flash simulation
2. Understanding the experiment concept
3. Re-implement the same in Javascript

**Value Added by our Project**

1. It would be beneficial for engineering students.
2. Highly beneficial for students pursuing Chemical Engineering to understand the experiment in a visual way.

**Risks and Challenges**

1.Simulating the required animations for bouncing arrows.

**Issues :**

1.Issue with responsiveness.