**Date: 2/1/25**

**Topics:**

* What is HTML?
* Different basic Tags in HTML.
* HTML semantic elements.
* Attributes in HTML.
* Forms in HTML.
* Table in HTML.
* Advance HTML5 Tags.
* Templets in HTML.

**Date: 3/1/25**

**Topics:**

* What is CSS?
* Different types of CSS selectors.
* Absolute and Relative Units in CSS.
* Visual Rules and Specificity in CSS.
* Box Model.
* Display and Positioning.
* Flexbox and Grid Structure.
* Made One basic landing page using HTML and CSS. ([Link of Reference](https://www.figma.com/design/DxuoMiIYAA8ICT5YIGRU2L/Landify---Landing-Page-UI-Kit-v2-(Community)?node-id=1046-41&p=f&t=KsRqK76fdwuk342Y-0)).

**Date: 7/1/25**

**Topics:**

* Have Hiragana and Katakana test.
* Practice to CSS problem in CSS-Battle platform.
* Responsive design and media queries.
* 10th anniversary celebration.

**Date: 8/1/25**

**Topics:**

* Security DOJO meeting.
* Solve CSS-Battle Problem.
* Media Queries and Container Queries.
* Pseudo-classes and Pseudo-elements.
* CSS Transitions and Transformations.
* CSS animations.
* CSS variables.
* Debugging CSS.
* Chrome’s Devtool.

**Date: 9/1/25**

**Topics:**

* What is JS?
* How JS works? and code execution in JS.
* Variables, Datatypes, Operator, Loops, Functions.
* Hoisting.
* Arrays and Objects and it’s methods.
* Closures and Currying.
* “**this**” in different environment.
* Arrays and Object Prototypes.

**Date: 10/1/25**

**Topics:**

* Shallow copy and Deep copy of objects and arrays.
* JavaScript HTML DOM.
* Different Browser Events.
* Different Event Listeners.
* Bubbling and Capturing.
* Perform DOM CURD operation by Implemented TODO list.
* Debounce and Throttling.
* ES6+ Features (Template literals, Destructuring, Spread and Rest operators and Default parameters).
* Higher Order function, Callbacks and Promises.
* Async – Await.
* Best Practices of JavaScript.

**Date: 13/1/25**

**Topics:**

* Start Implementing Memory CURD Assignment.
  + Set basic Project Setup.
  + Build the UI using HTML and CSS.
  + Implement Create, Read and Delete functionality using JavaScript for the user list.
  + Perform Input Validation for all mentioned fields.

**Date: 16/1/25**

**Topics:**

* Implement Edit functionality in Memory CURD Assignment.
* Implement Dynamic Search.
* Implement Debounce Function for request limiting
* Demo Meeting for assignments.
* What is TypeScript?
* Simple types.
* Special types.
* Arrays in TS.

**Date: 17/1/25**

**Topics:**

* Functions in TS.
* Tuples and Enums in TS.
* Classis in Ts.
* Objects in TS.
* Typing in Ts.
* Generics in Ts.
* Practice TypeScript Syntax.

**Date: 20/1/25**

**Topics:**

* Aliases and Interfaces in TS.
* Union Types in TS.
* Utility types in TS.
* Best Practices in TS.
* Monday Meeting.
* Implemented TODO in TS for DOM manipulation.
* Complete Assignment-3.
* Complete Installation and Introduction of MySQL.

**Date: 21/1/25**

**Topics:**

* Hiragana and Katakana Test.
* Database creation and Design.
* Database Design Mistakes and Solutions.
* Perform CURD in MySQL.

**Date: 22/1/25**

**Topics:**

* Sorting and Filtering Data.
* Joins and Relationships.
* Aggregation Data.
* Subqueries.
* Indexes and optimization.
* Start Implementing DBMS Task – 1.

**Date: 23/1/25**

**Topics:**

* Implementing DBMS Task – 1.
* Database Constrains.
* Transection and error handling.
* Backup and restore.
* Views and Materialize view.
* Store Procedures.
* Start DBMS TASK-2.

**Date: 24/1/25**

**Topics:**

* COMPLETED DBMS Task – 2.
* Design Database for ecommerce website.
* Partitioning and CTEs.

**Date: 27/1/25**

**Topics:**

* Introduction to NodeJS.
* NPM and Package management.
* Monday meeting.
* Create simple server.
* Understanding HTTP response.

**Date: 28/1/25**

**Topics:**

* Japanese Classes.
* Command line arguments in node.
* File System and fs module.
* Introduction to express.
* Basic routing.

**Date: 29/1/25**

**Topics:**

* Postman.
* Understanding the use of Query parameters, route parameters, and body data.
* Database Connection.
* Completed Assignment 4.

**Date: 30/1/25**

**Topics:**

* Implement Suggestion from assignment-4.
* Learned Middleware.
* Implement JWT authentication.
* Error handling and debugging.