Introduction to OJET

Objectives

- Introduction to OJET
- Development Environment
- Simple Example

Introduction to OJET

Introduction to OJET

- OJET stands for Oracle Java Script Extension Toolkit.
- It is a modular toolkit that is based upon a set of open source libraries and open source code contributed by Oracle Corporation.

Introduction to OJET

- It is used to build pure client side user interfaces, integrating with web services to get the data and so on.

Introduction to OJET

- It adds advanced functionalities and helps developers to build web applications faster.
- Provides a rich set of UI Components, built-in validators and behaviors.

Introduction to OJET

- Provides support for:
  - Two way binding
  - Routing
  - Resource Management

Introduction to OJET

- Provides support for building hybrid applications.
- Supports mobile native themes for IOS, Android and Windows.

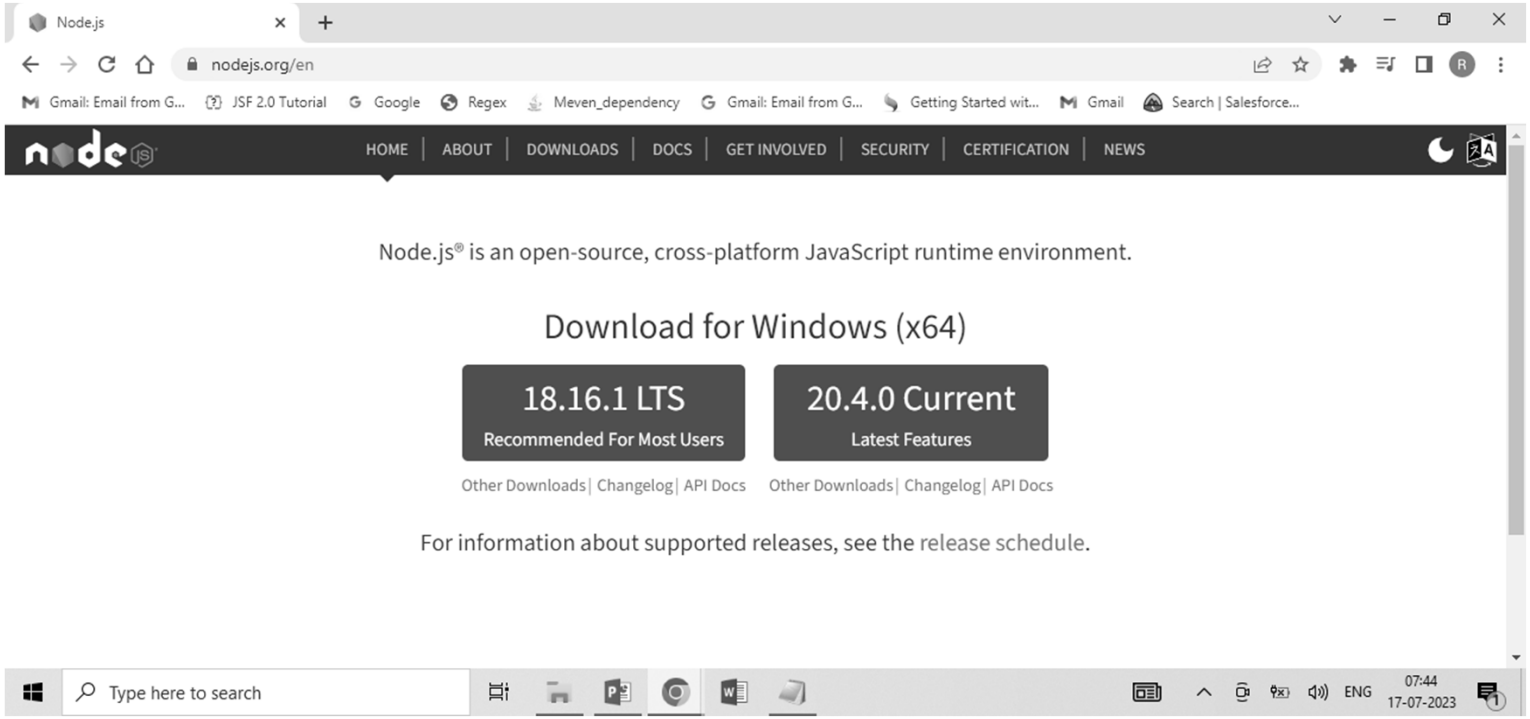
Development Environment

Development Environment

- To get started with Oracle JET, it is necessary to setup the Development Environment as per the following:
  - Node JS
  - Oracle JET CLI
  - Code Editor E.g. VS Code

Development Environment

- Install Node JS from https://nodejs.org/en
-



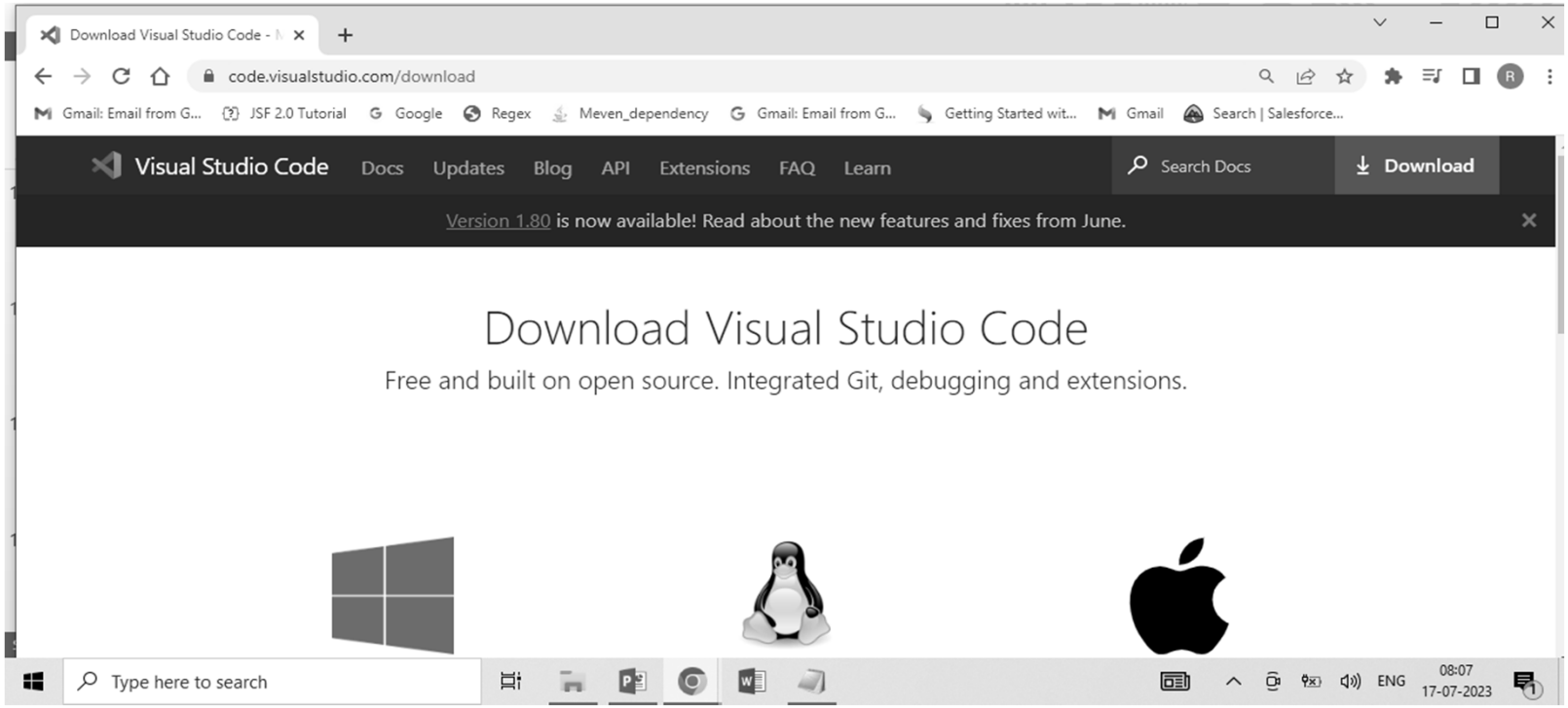
Development Environment

- Once NodeJS is installed, it is necessary to install the Oracle JET CLI using:

```
npm install -g @oracle/ojet-cli
```

Development Environment

- Install Visual Studio Code from https://code.visualstudio.com/download



Building First OJET Application

By Rahul Barve

Building First OJET Application

- To create an OJET application, open command prompt and change the directory to the current working directory and run the following command:

```
ojet create <<APP-NAME>>
--template=navdrawer
```

Running The Application

Running The Application

- To run the application, change the directory to the application specific directory and run the command:

```
ojet serve
```

Files and Folder Structure

Files and Folder Structure

- The entire source code of Oracle JET application resides under `/src`.
- The application's base code resides under `/src/js`

Files and Folder Structure

- Oracle JET applications are modular in nature.
- The modules have view and viewModel with the same name and are divided into 2 folders respectively: `views` and `viewModels`

Files and Folder Structure

- Important files:
  - `main.js`
  - `path_mapping.json`
  - `appController.js`
  - `root.js`

main.js

- The `main.js` file is responsible for loading the application specific libraries.

path_mapping.json

- Defines all the third-party libraries.
- `OJET CLI` automatically generates the paths to the `main.js`.

appController.js

- It contains all the router definitions.
- Responsible for providing the navigation workflow.

root.js

- It contains the module bindings which are applied using `knockout` library.

index.html

- It is the entry point of OJET application.
- Sets the layout and loads the OJET specific main module.

Let's Summarize

- Oracle JET is a modular toolkit that is based upon a set of open source libraries.
- Used to build pure client side user interfaces, integrating with web services to get the data.
- Provides a rich set of UI Components, built-in validators and behaviors.
- Provides support for two way binding, routing, resource management and so on.