**WEB DEVELOPMENT**

**Introduction:**

This project depicts the full stack development  full-stack web developer is a person who can develop both **client** and **server** software.

In addition to mastering HTML and CSS,

* Program a **browser** (e.g. using JavaScript, jQuery, Angular, or Vue)
* Program a **server** (e.g. using PHP, ASP, Python, or Node)
* Program a **database** (e.g. using SQL, SQLite, or MongoDB)

Client server :

Front-end

HTML

CSS

JavaScript

ES5

HTML DOM

JSON

XML and so on ….

## Server software : **Back-end**

* [PHP](https://www.w3schools.com/php/default.asp)
* [ASP](https://www.w3schools.com/asp/default.asp)
* [C++](https://www.w3schools.com/cpp/default.asp)
* [C#](https://www.w3schools.com/cs/default.asp)
* [Java](https://www.w3schools.com/java/default.asp)
* [Python](https://www.w3schools.com/python/default.asp)
* [Node.js](https://www.w3schools.com/nodejs/default.asp)
* Express.js
* Ruby
* REST

Here is a program for full stack development:

```java

Import java.util.ArrayList;

Import java.util.List;

Import java.util.Scanner;

Class Project {

Private String name;

Public Project(String name) {

This.name = name;

}

Public String getName() {

Return name;

}

}

Public class ProjectManagementTool {

Private List<Project> projects = new ArrayList<>();

Public void createProject(String projectName) {

Project project = new Project(projectName);

Projects.add(project);

}

Public void listProjects() {

System.out.println(“Projects:”);

For (Project project : projects) {

System.out.println(project.getName());

}

}

Public static void main(String[] args) {

ProjectManagementTool tool = new ProjectManagementTool();

Scanner scanner = new Scanner(System.in);

While (true) {

System.out.println(“Options:”);

System.out.println(“1. Create a new project”);

System.out.println(“2. List projects”);

System.out.println(“3. Exit”);

System.out.print(“Enter your choice: “);

Int choice = scanner.nextInt();

Scanner.nextLine(); // Consume the newline character

Switch (choice) {

Case 1:

System.out.print(“Enter project name: “);

String projectName = scanner.nextLine();

Tool.createProject(projectName);

System.out.println(“Project created!”);

Break;

Case 2:

Tool.listProjects();

Break;

Case 3:

System.out.println(“Exiting program.”);

Scanner.close();

System.exit(0);

Default:

System.out.println(“Invalid choice. Please try again.”);

}

}

}

}

```

## **Advantages**

The advantage of being a full-stack web developer is:

* You can master all the techniques involved in a development project
* You can make a prototype very rapidly
* You can provide help to all the team members
* You can reduce the cost of the project
* You can reduce the time used for team communication
* You can switch between front- and back-end development based on requirements
* You can better understand all aspects of new and upcoming technologies

## **Disadvantages**

* The solution chosen can be wrong for the project
* The solution chosen can be dependent on developer skills
* The solution can generate a key person risk
* Being a full stack developer is increasingly complex

**THANK YOU.**

**-R.G.CHARULATHA**