# Project Summary

A restricted single page web application, that connects to VDP helloworld API from its backend.

# What is expected for this project?

## Frontend UI

## Design

Single Page web application with following menu/routes/pages.

### Home

No content required

### Login

A Login form (username and password) to authenticate user

### Logout

Logout user if logged in

### VDP

* Show a button “Hello World” in this page UI.
* Show a textarea to display result of VDP helloword API.

## Functionality

* The single page web application should be restricted only to specific users as per your backend design
* No other pages/menus/routes should be accessible/visible, except the [Login](#_Login) page, if the user is not authenticated. Here frontend should authenticate the user using the login form with the backend, and if success takes the user to [Home](#_Home) page.
* For logged in user, show a [Logout](#_Logout) button. If user clicks it, logout the user (backend API call) and fall back to login page in the UI.
* For logged in user, show a menu for [VDP](#_VDP) page. In that page, if user clicks the “Hello World” button, frontend makes a backend API call which in turn connects to VDP helloworld API and return the success result. This result should be shown in the UI. Refer [helloworld](#_Helloworld) section on how to do the VDP API call.

## Backend

* Design your own endpoints for the above UI functionality
* Make sure authentication controls are there to secure the frontend web page and backend API calls, except for login.
* You can use any DB (even in-memory) and store hardcoded user credentials. Your backend will connect with this to authenticate the user’s login request.
* For helloworld API functionality, refer the [helloworld](#_Helloworld) section.

## Helloworld

All our Visa APIs require Two-Way SSL or X-Pay Token authentication. You can use X-Pay Token authentication in this project. Refer this [guide](https://developer.visa.com/pages/working-with-visa-apis/x-pay-token).

For this project, you can call the below VDP helloworld API endpoint from your backend server, when a user in your frontend clicks the “Hello World” button.

GET https://sandbox.api.visa.com/vdp/helloworld?apikey={apikey}

Hint: For resourcepath in x-pay-token generation, use “helloword”

For credentials, you would need to create a project in VDP. Otherwise, you can also use the below test credentials for Sandbox.

Apikey:

ZKSEWNSCOA4XS7S7ZN2J21m0T4VONvFRKyUgJdG28Y9Vr4pAY

Shared Secret:

l5In#-J0dDkbAK$Erdi$7vft9o+ZNWyl--6PSRD}

# What we assess in this project?

* UI routes and functionality
* Backend functionality
* Your coding structure and standards