

Wireframes

Low Fidelity Wireframes for

High Fidelity Wireframes for

Page Specification (Home page Screenshot)

<Why I make the exact design, what is the reason of it, include that people like it the most>

Maybe include:

- Why I used specifically this colour palette (maybe write about people associations with green technologies, for example green for grass, and blue for sky, white for clouds)
- Explain The reason of using such font to website and the picture to your logo
- How you show interactive elements and inputs (maybe to make it user friendly, and you should present calmness as you provide alternative solution instead of aggressive pollution towards our nature, so be like pacifist)
- About the overall layout, just add that you want to show the message of the company in the first place

Overall explain why you have made these design choices. (You have to include at least something to get marks)

Colours

Sources (Links to every picture)

Image Source	Description	Usage	Licence	License	Link
Stocksnap	An image of solar	Used In		Free	<link>

Site Map

Navigation Flow Diagram

Data Tables / Data Types

Customer ID

Field	Data Type
CustomerID	int(11)
firstname	varchar(255)
lastname	varchar(255)
email	varchar(255)
password	varchar(255)

Consultations

Field	Data Type
consultationID	int(11)
consultation_type	varchar(255)

Consultation Booking

Field	Data Type
bookingID	int(11)
customerID	int(11)
consultationID	int(11)
selectedDate	date
selectedTime	time

Installation

Field	Data Type
installationID	int(11)
installation_type	varchar(255)

Installation Booking

Field	Data Type
bookingID	int(11)
customerID	int(11)
installationID	int(11)
selectedDate	date
selectedTime	time

Carbon Footprint Calculator

Field	Data Type
calculationID	int(11)
customerID	int(11)
energy_source	varchar(255)
consumption	float(5)
emission_factor	float(5)
total_emission	float(5)

Energy Usage Calculator

Field	Data Type
calculationID	int(11)
customerID	int(11)
appliance_type	varchar(255)
typical_wattage	int(11)

working_hours	int(11)
appliance_number	int(11)
total_consumption	float(5)

Data Dictionary

Customer ID

Field	Data Type	Data Format	Field Size	Description	Example
CustomerID	Integer	-	11	Unique ID	5
firstname	Variable Character	-	255	Customer's first name	John
lastname	Variable Character	-	255	Customer's last name	Doe
email	Variable Character	name@mail.com	255	Customer's email address	johndoe@example.com
password	Variable Character	-	255	Customer's password	John123

Consultations

Field	Data Type	Data Format	Field Size	Description	Example
consultationID	Integer	-	11	Unique identifier for each consultation	5
consultation_type	Variable Character	-	255	Type of consultation (Smart Home Energy Management System, Solar Panels, EV Chargers)	Solar Panels

Consultation Booking

Field	Data Type	Data Format	Field Size	Description	Example
bookingID	Integer	-	11	Unique identifier for each booking	5
customerID	Integer	-	11	Reference to the customer	5

				booking the consultation	
consultationID	Integer	-	11	Reference to the consultation being booked	5
selectedDate	Date	YYYY-MM-DD	11	Date of the booked consultation	2020-04-02
selectedTime	Time	HH:MM:SS	11	Time of the booked consultation	12:30:00

Installation

Field	Data Type	Data Format	Field Size	Description	Example
installationID	Integer	-	11	Unique identifier for each installation service	5
installation_type	Variable Character	-	255	Type of installation (Smart Home Energy Management System, Solar Panels, EV Chargers)	Solar Panels

Installation Booking

Field	Data Type	Data Format	Field Size	Description	Example
bookingID	Integer	-	11	Unique identifier for each installation booking	5
customerID	Integer	-	11	Reference to the customer booking the installation	5
installationID	Integer	-	11	Reference to the installation	5

				being booked	
selectedDate	Date	YYYY-MM-DD	11	Date of the booked installation	2020-04-02
selectedTime	Time	HH:MM:SS	11	Time of the booked installation	12:30:00

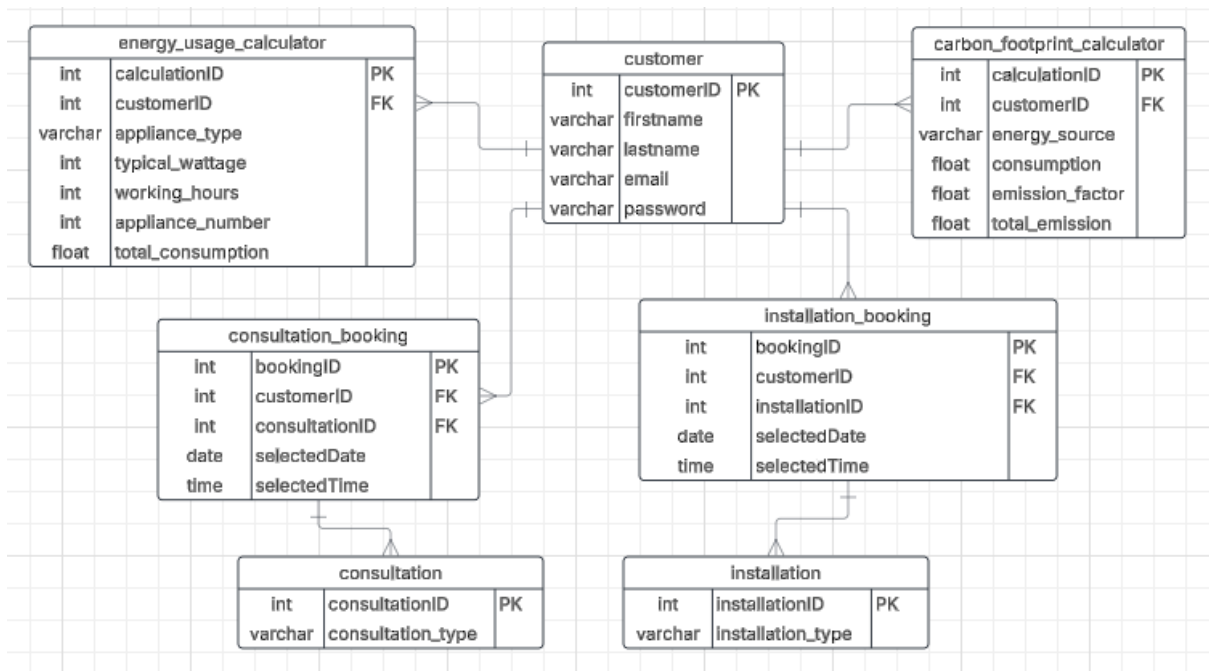
Carbon Footprint Calculator

Field	Data Type	Data Format	Field Size	Description	Example
calculationID	Integer	-	11	Unique identifier for each carbon footprint calculation	5
customerID	Integer	-	11	Reference to the customer performing the carbon footprint calculation	5
energy_source	Variable Character	-	255	Type of energy used	Electricity
consumption	Float	-	5	The amount of energy consumed in kWh or cubic meters	295.5
emission_factor	Float	-	5	Emission factor based on the energy source	0.3
total_emission	Float	-	5	Total carbon emissions in kilograms	40.8

Energy Usage Calculator

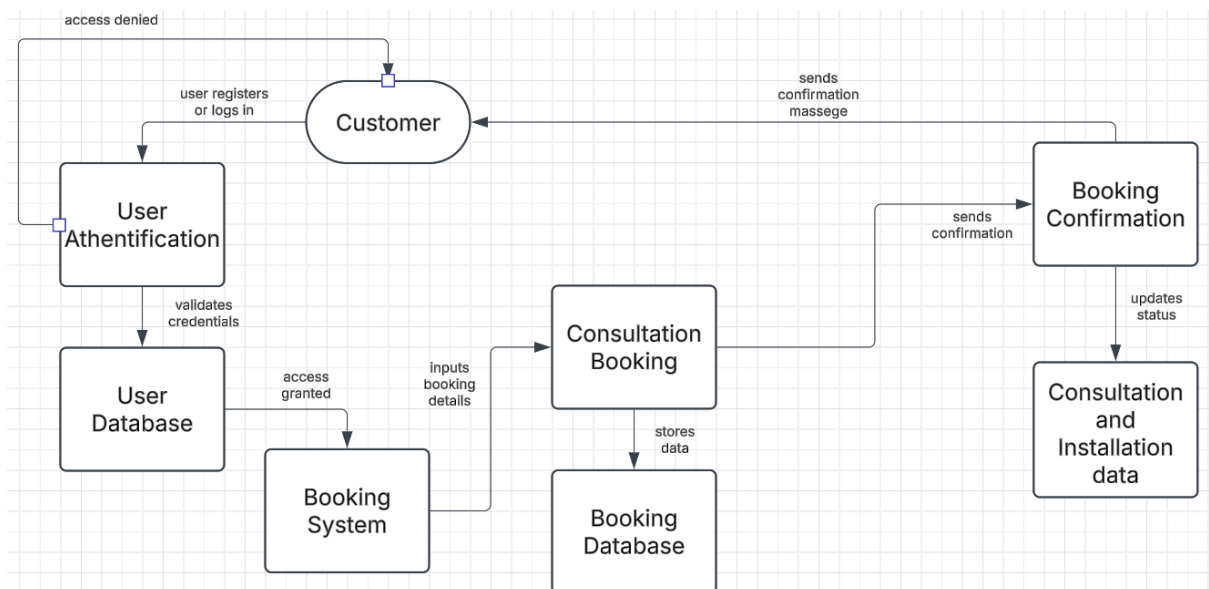
Field	Data Type	Data Format	Field Size	Description	Example
calculationID	Integer	-	11	Unique identifier for each energy usage calculation	5
customerID	Integer	-	11	Reference to the customer performing the energy usage calculation	5
appliance_type	Variable Character	-	-	Type of appliance (Refrigerator, Washing Machine...)	Refrigerator
typical_wattage	Integer	-	11	Wattage of the appliance based on typical usage	150
working_hours	Integer	-	11	Number of hours the appliance is used per day	8
appliance_number	Integer	-	11	Number of appliances of that type	1
total_consumption	Float	-	5	Total energy consumption for the selected appliances	3.4

ERD Diagram

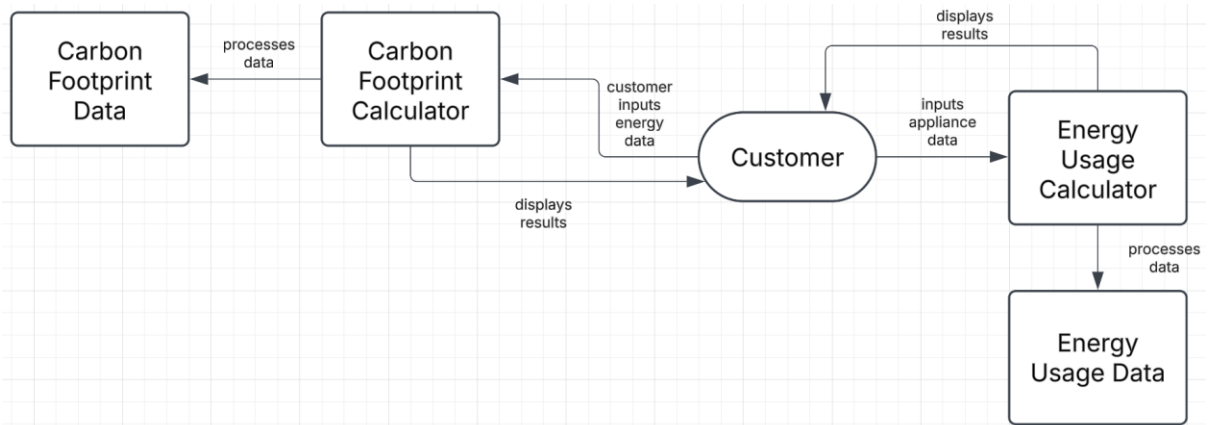


Data Flow Diagram

Booking Process

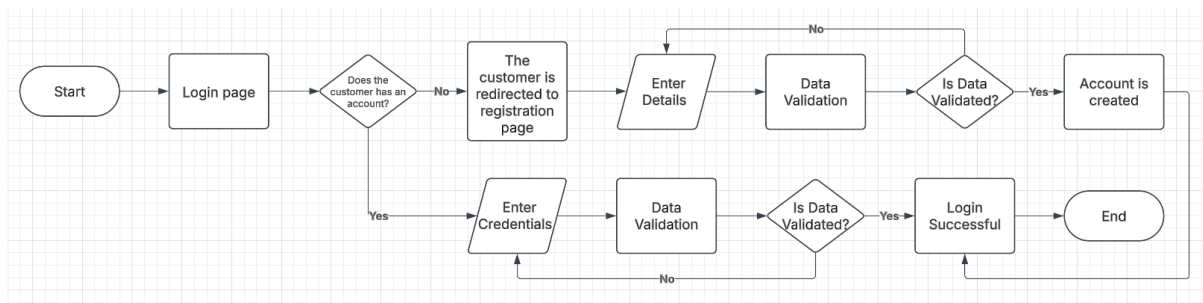


Carbon Footprint and Energy Usage Calculators

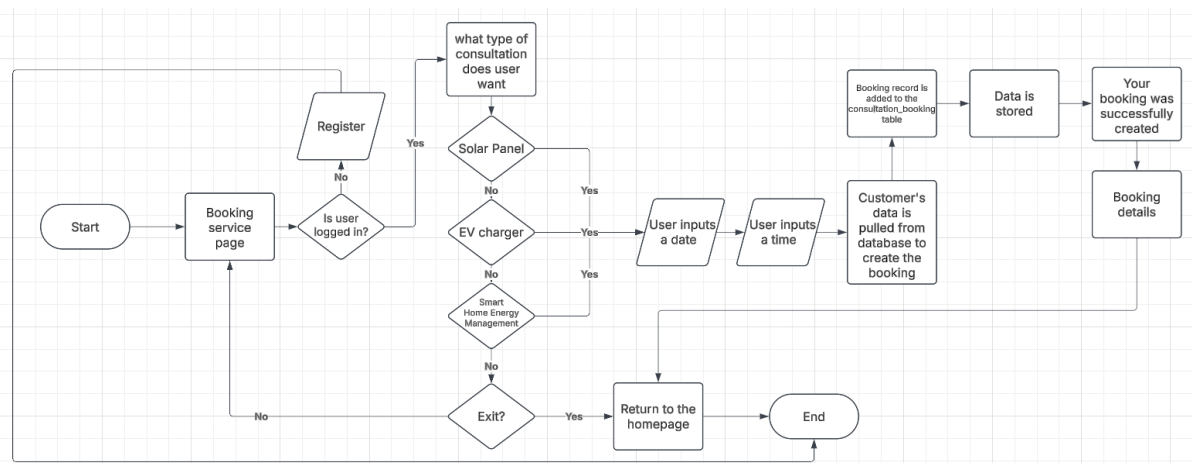


Flowcharts/Pseudocode/Natural Language

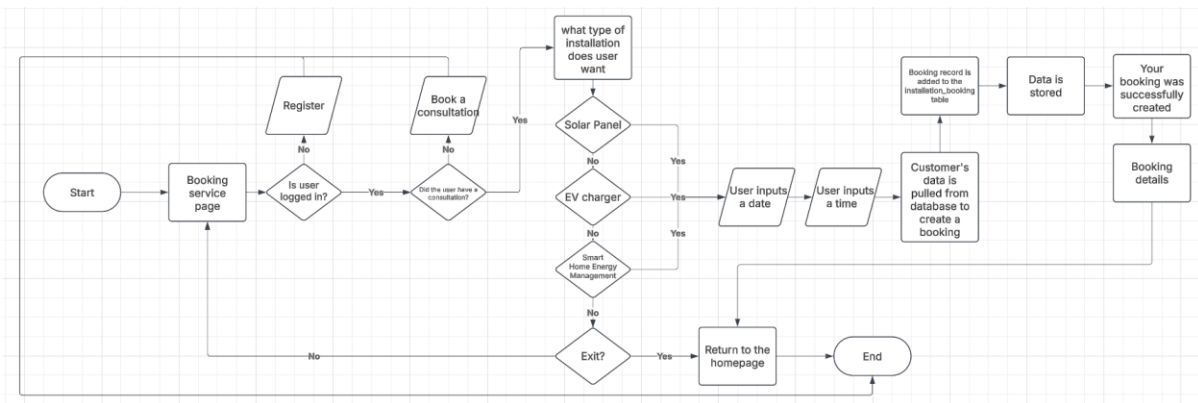
Register/Login



Consultation Page



Installation Page



A test strategy

“EXTRA FOR TASK Aii”:

UML diagram

