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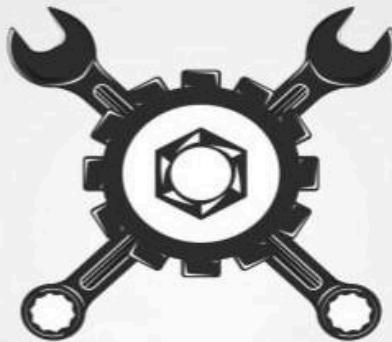
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# AutoBookr

# Introduction

## **\*\*Purpose of the Autobookr Application\*\***

The primary purpose of Autobookr is to revolutionize the way car owners and mechanics connect and manage vehicle maintenance and repair services. By leveraging advanced technology and a user-friendly platform, Autobookr aims to streamline the entire process, ultimately saving time and hassle for both parties.

For car owners, Autobookr serves as a one-stop-shop, providing access to a vast network of certified mechanics, detailed profiles, customer reviews, and upfront pricing information. The application empowers car owners with a convenient and transparent solution for managing their vehicle's maintenance needs, fostering trust and confidence in the services they receive.

On the other hand, Autobookr offers mechanics and auto repair shops a platform to showcase their services, reach a wider customer base, and streamline their

appointment scheduling process. By being part of Autobookr's network, mechanics can benefit from increased visibility, attract new customers, and optimize their operations through a centralized and efficient appointment management system.

Autobookr's mission is to bridge the gap between car owners and mechanics, facilitating clear communication and ensuring a seamless experience throughout the entire process, from scheduling to service completion. By catering to the needs of both parties, Autobookr aims to foster a mutually beneficial relationship, ultimately ensuring top-notch vehicle maintenance and repair services while promoting convenience and transparency for all.

Through its user-friendly platform and innovative approach, Autobookr seeks to become the go-to solution for anyone seeking a hassle-free and efficient way to manage their vehicle's maintenance and repair needs, whether they are a car owner or a mechanic.

### **\*\*Intended Audience:\*\***

Autobookr is designed to cater to a broad audience, including car owners and mechanics, who value convenience, efficiency, and transparency when it comes to maintaining and repairing vehicles. The intended audience for Autobookr includes:

1. Busy professionals: Individuals with demanding careers and hectic schedules who appreciate the ability to book appointments quickly and efficiently without the hassle of coordinating schedules manually.
2. Working families: Families with multiple vehicles and busy schedules can benefit from Autobookr's streamlined approach to scheduling maintenance and repairs, saving them valuable time and effort.
3. Tech-savvy consumers: Individuals who are comfortable using mobile applications and value the convenience of managing their car's maintenance needs through a user-friendly digital platform.
4. Cost-conscious car owners: Car owners seeking transparent pricing information and the ability to compare services and costs across different mechanics within their local area.

5. Frequent travelers: Individuals who frequently travel or relocate can easily find and book services with reputable mechanics in their current location using Autobookr's extensive network.

6. Mechanics and auto repair shops: Autobookr provides mechanics and auto repair shops with a platform to showcase their services, reach a wider customer base, and streamline their appointment scheduling process.

By including mechanics and auto repair shops as part of the intended audience, Autobookr not only serves car owners but also helps mechanics and service providers to manage their operations more efficiently. Mechanics can benefit from Autobookr's platform by gaining increased visibility, attracting new customers, and optimizing their appointment scheduling system.

With its user-friendly interface and seamless integration for both car owners and mechanics, Autobookr aims to bridge the gap between these two groups, fostering a transparent and mutually beneficial relationship while ensuring top-notch vehicle maintenance and repair services.

# Pitch /Proposal

## Your car doesn't start

Have you ever woken up one day to go to a doctor's appointment? Your kids bus arrived late so you had to take them to school , or even had to go to work . You brush your teeth , get dressed, you may eat breakfast and after all of those little tasks are completed you warm up the car . Well ... your car did not turn on .After the 3rd attempt your car turns on . So, after you go to your appointment or drop off your kid or after you work. You decide to find a mechanic nearby to take a look at your vehicle. You're not well knowledgeable about your car maintenance. Now what ?? What goes through your mind. I have to go find a local mechanic nearby . To do that , you have to go on your phone and search up local mechanics nearby. After you search, you find a list of mechanics that are nearby . You don't know who to choose and who to call. So you take your vehicle to Johnson mechanic and when you arrive there is a line of vehicles waiting. Johnson tells you that you have to wait 2-3 hours till it's your turn . You see the

issue . One having to find a mechanic that is available at a time where it best suits you . And two we see a mechanic johnson struggling to keep up with a busy workload . Well I have a solution. Let me introduce you to autobooker . Autobookr is a web based mechanic scheduler that helps you find a local mechanic nearby and helps with a mechanics booking scheduling .

# Why we choose to develop this application

- Target rural area of north carolina
- Reduce the issue of car pilling in smaller mechanic shops
- Help mechanic with their scheduling
- Customers who don't have knowledge of their vehicle and need a reliable mechanic in their area

# System Requirements

## Specs

We used a 64 bit system to work on the application should be fine to work on a different bit system

Python 3.12

## Installations

VsCode Editor : <https://code.visualstudio.com/>

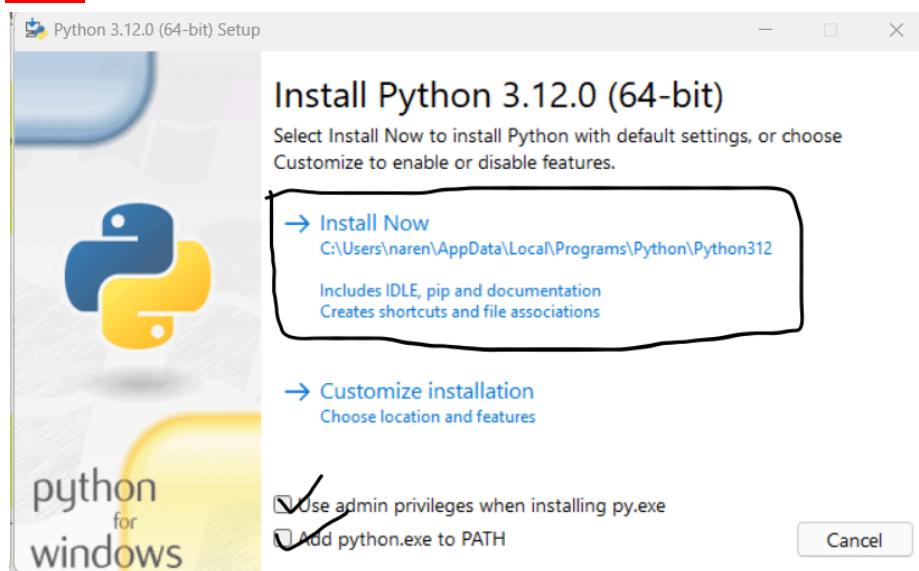
Python 3.12: <https://www.python.org/downloads/>

Sqlite Browser: <https://sqlitebrowser.org/dl/>

Google Cloud Platform : <https://g.co/kgs/iKu2xjc>

## Python Installation

**\*very important to check the 'Use admin privileges when installing py.exe and add python.exe to Path \***



## Sqlite Browser

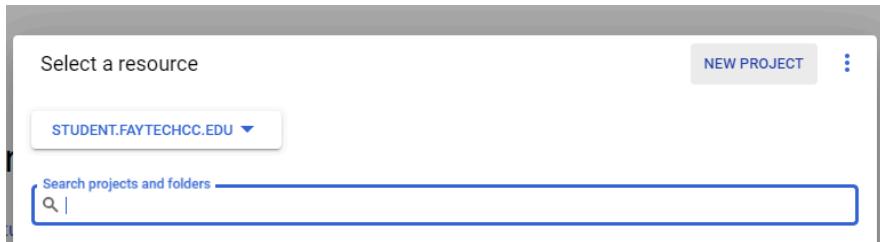
We recommend when installing sqlite browser to select Standard Installer for 64-bit windows, depending on your operating system

A screenshot of the DB Browser for SQLite website. The top navigation bar includes links for About, Download, Blog, Docs, GitHub, Gitter, Stats, Patreon, and DBHub.io. The main content area is titled "Downloads" with the sub-instruction "(Please consider sponsoring us on Patreon 🎉)". Below this, there is a section for "Windows" with the sub-instruction "Our latest release (3.12.2) for Windows:". A list of download links is provided, including: "DB Browser for SQLite - Standard installer for 32-bit Windows", "DB Browser for SQLite - .zip (no installer) for 32-bit Windows", "DB Browser for SQLite - Standard installer for 64-bit Windows", and "DB Browser for SQLite - .zip (no installer) for 64-bit Windows".

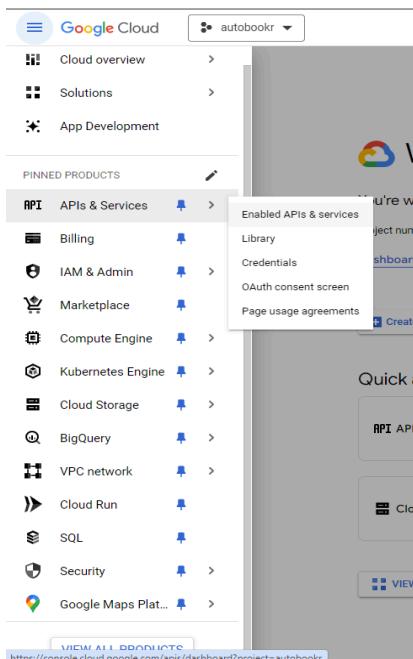
## Google Cloud Platform (free)

We used Google Cloud Platform to use Google maps api

You can create a account to enable your preferred api for your projects  
Once you created your account locate the tab→ to create a new project



Once you created your account located the left tab→ click on API'S AND SERVICES → click library



Once you select a api → click on the enable , you own api key is created to use for your project

## How to Access Autobookr Steps

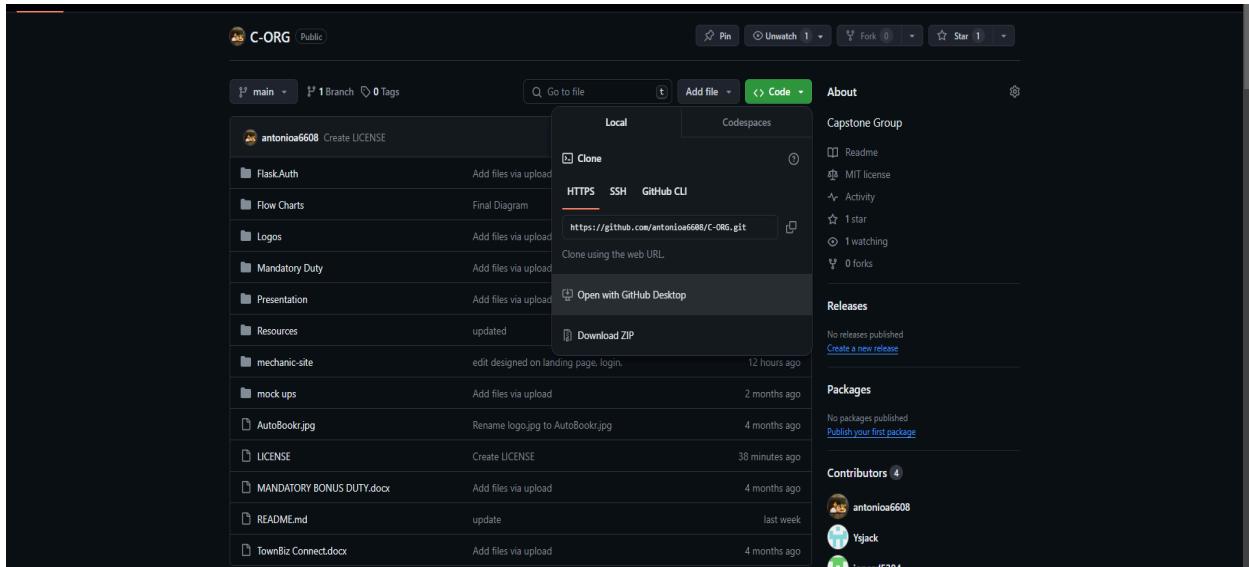
In vscode terminal to check if python and pip is installed run the following commands

```
python --version  
pip --version
```

This two commands will return the current version of python and pip on your machine

## Next steps

In github, clone the whole C-ORG repository, select <>Code , click on the Local tab , click on open with Github Desktop , follow the steps from there, we advise to store the C-ORG in the desktop location so it would be easier to navigate to



## Opening up VsCode

On the Top left of the VsCode screen, click on the File tab → click on open folder→ locate C-ORG folder → folder should be added to your VsCode window

## **Navigating to correct project folder**

By now you should have all the steps correct, to open up the terminal line locate the terminal tab on the very top of the VsCode Windows → click on new terminal

On the terminal line type the command

```
cd C-ORG
```

```
cd mechanic-site
```

Now your in the correct folder

## **Creating virtual environment :**

There should be a virtual environment already created with the name of the persons machine , we suggest to delete the environment folder and create a virtual environment To run the command

```
python -m venv env
```

## **To activate the virtual environment run:**

```
./env/Scripts/activate
```

# **Install the project**

The projects and its dependencies can be installed Manually(optional) :

```
pip install flask
```

```
pip install Google-Images-Search
```

```
pip install pytest  
pip install windows-curses
```

```
pip install werkzeug
```

# Requirements.txt

The requirements.txt lists the packages from above already so you need to just run  
'pip install -r requirements.txt'  
'flask – app mechanic\_site run –debug'

```
The requirements.txt list the packages already so you need to just run  
'pip install -r requirements.txt'  
'flask --app mechanic_site run --debug'
```

(ignore) you should still be in the environment state to run pip install -r requirements.txt

```
1  blinker==1.8.2  
2  cachetools==5.3.3  
3  certifi==2024.2.2  
4  charset-normalizer==3.3.2  
5  click==8.1.7  
6  colorama==0.4.6  
7  Flask==3.0.3  
8  google-api-core==2.19.0  
9  google-api-python-client==2.48.0  
10 google-auth==2.29.0  
11 google-auth-hplib2==0.2.0  
12 Google-Images-Search==1.4.6  
13 googleapis-common-protos==1.63.0  
14 httpplib2==0.22.0  
15 idna==3.7  
16 iniconfig==2.0.0  
17 itsdangerous==2.2.0  
18 Jinja2==3.1.4  
19 MarkupSafe==2.1.5  
20 packaging==24.0  
21 pillow==10.3.0  
22 pluggy==1.5.0  
23 proto-plus==1.23.0  
rsa          4.9  
six         1.16.0  
termcolor    1.1.0  
uritemplate  4.1.1  
urllib3     2.2.1  
Werkzeug    3.0.3  
windows-curses 2.3.3  
● (env) PS C:\Users\alext\OneDrive\Desktop\C-ORG\mechanic-site> pip freeze > requirements.txt  
● (env) PS C:\Users\alext\OneDrive\Desktop\C-ORG\mechanic-site> pip install -r requirements.txt
```

## Initializing the database

The project's database must be initialized before the project can be run( this needs to happen once , running again will reset the database) since the database has already been initialized when cloning the project you don't need to do this.

To run the command :

```
Flask –app mechanic_site init-db
```

## **Adding Fake Data (Optional)**

The project might look a bit empty at first, so I added a command to fill America with fake mechanics for testing purposes. If you want to fill the database with some faked testing data you can run the command but it might take around a minute or two :

```
flask –app mechanic_site populate-db
```

## **Running The App**

Run the server with

```
flask –app mechanic_site run –debug
```

Then open the address it is running on in a browser

Run Unit Tests

You can run the unit tests with

```
pytest
```

## **Locating the schema.sql**

Locate the schema.sql in the project folder , to open it up in Sqlite Browser

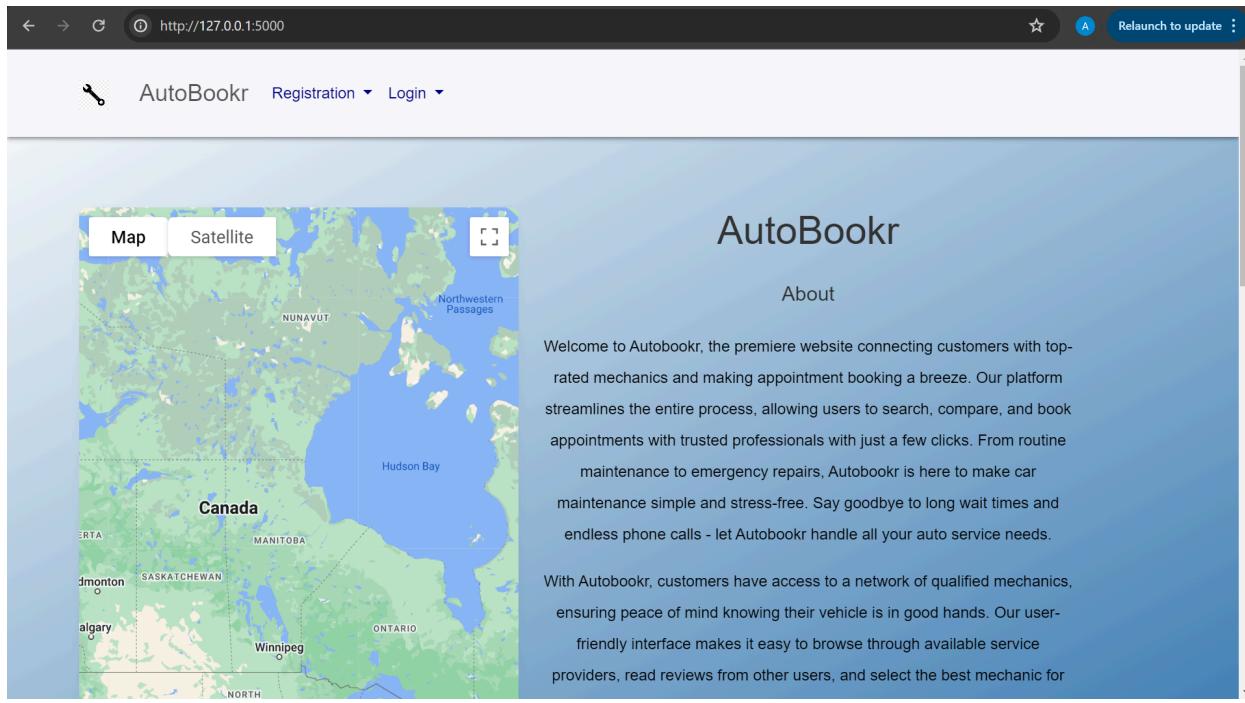
# User Manual

## Table of contents for Customer

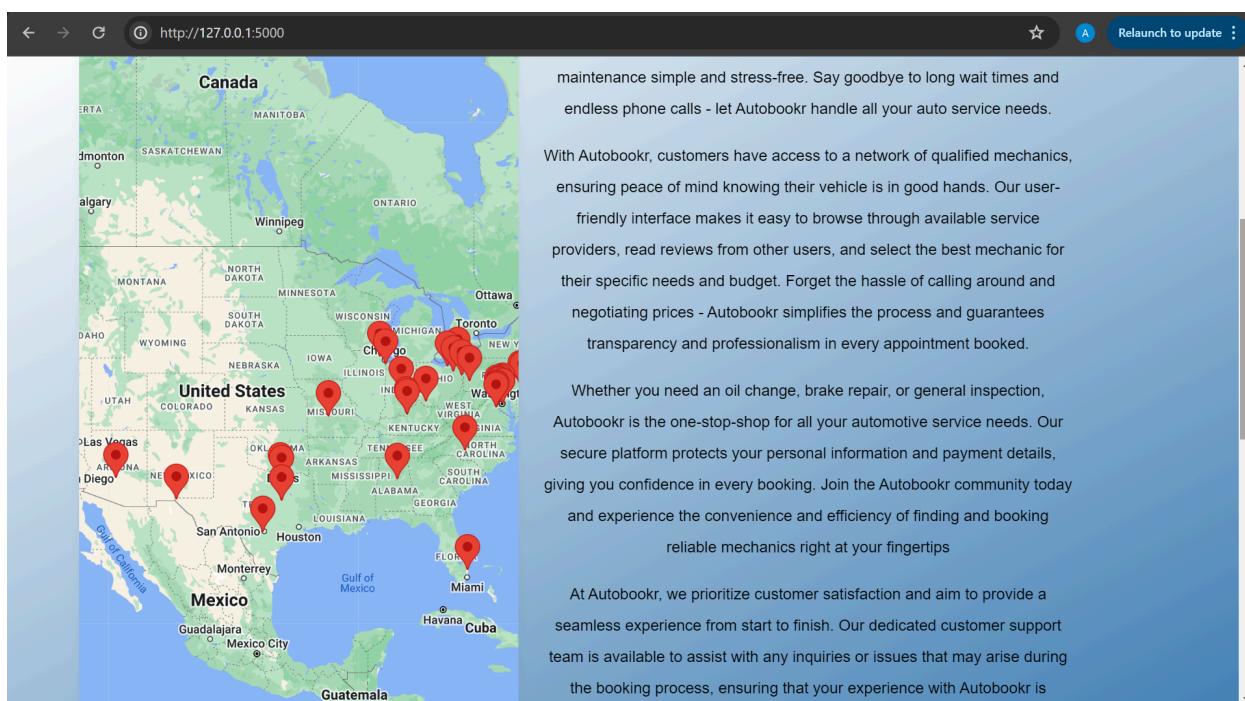
- Login**
- Registration**
- Find Mechanics**
- Reviews**
- MyCars**
- Book appointments**
- My Appointments**
- Profile**
- Logout**

## Landing page

User story: As a customer, I would like to have access to the landing page so i know what the website is about and look at the mechanics all over the world.



The screenshot shows the Autobookr landing page. At the top, there is a navigation bar with links for 'AutoBookr', 'Registration', and 'Login'. Below the navigation bar is a large map of Canada. The map includes labels for provinces and major cities like Edmonton, Calgary, Winnipeg, and Ottawa. There are two tabs at the top of the map: 'Map' (which is selected) and 'Satellite'. To the right of the map, the word 'AutoBookr' is displayed in a large, bold font. Below it, the word 'About' is centered. The main content area contains text describing the service: 'Welcome to Autobookr, the premiere website connecting customers with top-rated mechanics and making appointment booking a breeze. Our platform streamlines the entire process, allowing users to search, compare, and book appointments with trusted professionals with just a few clicks. From routine maintenance to emergency repairs, Autobookr is here to make car maintenance simple and stress-free. Say goodbye to long wait times and endless phone calls - let Autobookr handle all your auto service needs.' A vertical scrollbar is visible on the right side of the page.



The screenshot shows the Autobookr landing page with a map of North America. The map includes labels for Canada, the United States, and Mexico. Numerous red location pins are placed on the map, indicating the locations of mechanics across the continent. The pin density is highest in the central United States and southern Canada. The rest of the map is green, representing rural or less densely populated areas. To the right of the map, the word 'AutoBookr' is displayed in a large, bold font. Below it, the word 'About' is centered. The main content area contains text describing the service: 'maintenance simple and stress-free. Say goodbye to long wait times and endless phone calls - let Autobookr handle all your auto service needs.' 'With Autobookr, customers have access to a network of qualified mechanics, ensuring peace of mind knowing their vehicle is in good hands. Our user-friendly interface makes it easy to browse through available service providers, read reviews from other users, and select the best mechanic for their specific needs and budget. Forget the hassle of calling around and negotiating prices - Autobookr simplifies the process and guarantees transparency and professionalism in every appointment booked.' 'Whether you need an oil change, brake repair, or general inspection, Autobookr is the one-stop-shop for all your automotive service needs. Our secure platform protects your personal information and payment details, giving you confidence in every booking. Join the Autobookr community today and experience the convenience and efficiency of finding and booking reliable mechanics right at your fingertips.' 'At Autobookr, we prioritize customer satisfaction and aim to provide a seamless experience from start to finish. Our dedicated customer support team is available to assist with any inquiries or issues that may arise during the booking process, ensuring that your experience with Autobookr is' A vertical scrollbar is visible on the right side of the page.

## Login

User Story : As a customer I would like to login to Autoobookr to have access to my dashboard

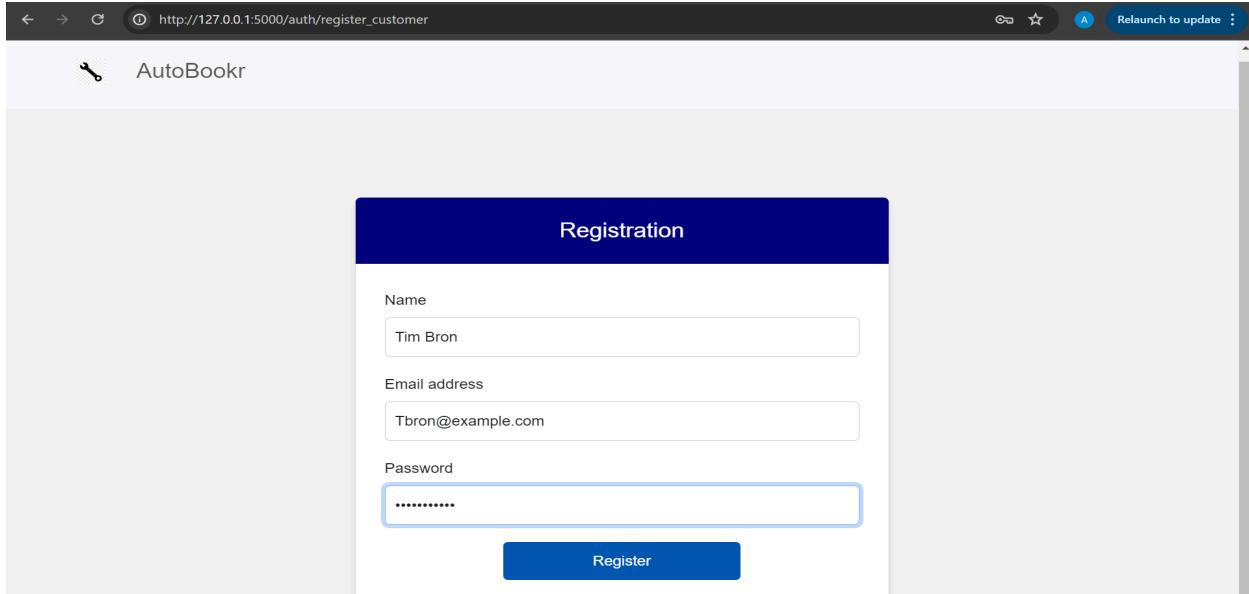
The screenshot shows a web browser window with the URL <http://127.0.0.1:5000/auth/login-customer>. The page title is "AutoBookr". A central modal dialog is titled "Customer Login". It contains two input fields: "Email address" with the value "Tbron@example.com" and "Password" with masked input. Below the fields is a blue "Login" button.



A screenshot of the "Customer Dashboard" sidebar. It has a header "Customer Dashboard" and three listed items: "Find Mechanics", "Your Cars", and "Your Appointments".

## Registration

User Story: As a customer I would like to register to AutoBookr to have access to my dashboard



The screenshot shows a web browser window with the URL [http://127.0.0.1:5000/auth/register\\_customer](http://127.0.0.1:5000/auth/register_customer). The page title is "AutoBookr". The main content is a "Registration" form with three input fields: "Name" containing "Tim Bron", "Email address" containing "Tbron@example.com", and "Password" containing a masked password. A blue "Register" button is at the bottom.



The screenshot shows a web browser window with the URL <http://127.0.0.1:5000>. The page title is "AutoBookr". The top right corner shows a user profile for "Tim Bron". The main content is a "Customer Dashboard" with a sidebar containing three links: "Find Mechanics", "Your Cars", and "Your Appointments".

## Find Mechanics

User story: As a customer if my car has an issue or I want to be checked I would like to input my zipcode to get a list of mechanics that I can choose from.

http://127.0.0.1:5000/customer/find\_mechanics

## Find Mechanics

Enter Your Zip Code:

**Search**

Map Satellite

Fayetteville, NC

Nearby Mechanics:

http://127.0.0.1:5000/customer/find\_mechanics

## Find Mechanics

Enter Your Zip Code:

**Search**

Map Satellite

Fayetteville, NC

Nearby Mechanics:

Jill AutoMotive
-----------------

Nearby Mechanics:

**Jill AutoMotive**

Rating: None

Review: [View Reviews](#)

Zip Code: 28318

**Mechanic 162**

Rating: 3.333333333333335

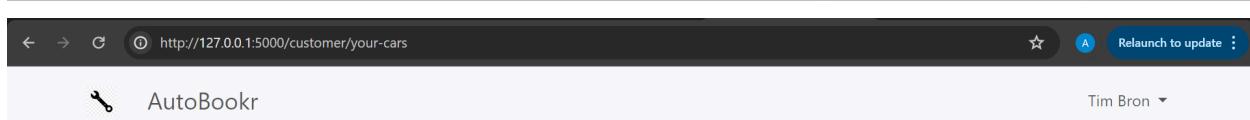
[Book](#)

## Reviews

User story: As a customer I would like to view reviews from other customers based on their experience on the mechanic if they did a good job and an overall rating.

## My Cars

User story: As a customer I would like to register my vehicles so that when I book an appointment the mechanic can see what kind of model they will be working on .



## My Cars

Add New Car

Make  
Ford Fiesta

Model Number  
123-34567

Registration Number  
3121345

Submit

AutoBookr

Tim Bron

## My Cars

Ford Fiesta 123-34567  
Registration Number: 3121345

Maintenance History

Add New Car

## Book Appointment

User story : As a customer I would like to see a calendar based on the availability of the mechanic. I can select the time that would best suit me for the day .

Map Satellite Autryville Volunteer Fire Department Autryville Rd Autryville Baptist Church E Williams St Dollar General Market Store #25842 Zip-code: 28318 Rating: None

### Mechanic: Jill AutoMotive

#### Appointment Details

Select Car:  
Ford Fiesta - (3121345)

Description of Problem:

May 5 – 11, 2024

	Sun 5/5	Mon 5/6	Tue 5/7	Wed 5/8	Thu 5/9	Fri 5/10	Sat 5/11
10am							
11am							
12pm							
1pm							
2pm							
3pm							
4pm							
5pm							

← → ⌂ http://127.0.0.1:5000/customer/booking\_form/401

Select Car:  
Ford Fiesta - (3121345)

Description of Problem:  
my ford fiesta is making a weird noise from the wheels and I need a oil change

May 5 – 11, 2024 today < >

	Sun 5/5	Mon 5/6	Tue 5/7	Wed 5/8	Thu 5/9	Fri 5/10	Sat 5/11
10am							
11am							
12pm							
1pm							
2pm							
3pm							
4pm							

← → ⌂ http://127.0.0.1:5000/customer/booking\_success/401

AutoBookr Tim Bron ▾

Appointment booked successfully

### Booking Successful!

**Booking Details**

**Mechanic:** Mechanic 168

**Zip Code:** 93345-8527

**Selected Car:** Ford - Focus

**Start Time:** 2024-04-12 15:45:18.915773

**End Time:** 2024-04-12 18:45:18.915773

**Description of Problem:** None

[Return Home](#)

## My Appointments

User story: As a customer I would like to see my upcoming appointments and the past appointments.

The screenshot shows the 'Appointments' section of the AutoBookr application. At the top, there's a header with the AutoBookr logo and a dropdown for 'Tim Bron'. Below the header, the title 'Appointments' is displayed. On the left, a section titled 'Upcoming Appointments' shows a calendar for 'May 2024'. The days of the week are labeled from Sun to Sat. Specific dates are highlighted: Saturday, May 5th, and Sunday, May 6th, are highlighted in yellow. Other dates are shown in blue. To the right of the calendar, there are sections for 'Past Appointments' with 'To Review' and 'Reviewed' buttons.

## Profile

User Story : As a customer I would like to update my name

The screenshot shows the 'Customer Dashboard' of the AutoBookr application. At the top, there's a header with the AutoBookr logo and a dropdown for 'Tim Bron'. To the right of the dropdown is a button labeled 'Relaunch to update ...'. Below the header, there's a sidebar with a 'Profile' link and a 'Logout' link. The main content area is titled 'Customer Dashboard' and contains three buttons: 'Find Mechanics', 'Your Cars', and 'Your Appointments'.

A screenshot of a web browser window showing the user profile page. The URL in the address bar is `http://127.0.0.1:5000/customer/profile`. The page header includes the AutoBookr logo, the user name "Tim Bron", and a "Relaunch to update" button. The main content area is titled "User Profile" and displays the user's name and email, each with an "Edit" link.

← → ⌛ ⚙ http://127.0.0.1:5000/customer/profile ☆ A Relaunch to update ⚙

AutoBookr Tim Bron

## User Profile

Name: Tim Bron

Email: Tbron@example.com

Edit Profile

A screenshot of a web browser window showing the edit profile page. The URL in the address bar is `http://127.0.0.1:5000/customer/edit_profile`. The page header includes the AutoBookr logo, the user name "Tim Bron", and a "Relaunch to update" button. The main content area is titled "Edit Profile" and contains fields for "Name" and "Email", both of which are currently populated with the user's information. A "Save Changes" button is at the bottom.

← → ⌛ ⚙ http://127.0.0.1:5000/customer/edit\_profile ☆ A Relaunch to update ⚙

AutoBookr Tim Bron

## Edit Profile

Name

Timothy Bron

Email

Tbron@example.com

Save Changes

A screenshot of a web browser window for the URL <http://127.0.0.1:5000/customer/profile>. The page title is "AutoBookr". On the right, there is a user dropdown menu with the name "Timothy Bron". A red-bordered message box at the top center says "Profile updated successfully".

## User Profile

**Name:** Timothy Bron  
**Email:** Tbron@example.com

[Edit Profile](#)

## Logout

User story: as a customer I would like to logout of AutoBookr

A screenshot of a web browser window for the URL <http://127.0.0.1:5000/customer/profile>. The page title is "AutoBookr". On the right, there is a user dropdown menu with the name "Timothy Bron". A red-bordered message box at the top center says "Profile updated successfully". To the right of the message box is a sidebar with two options: "Profile" and "Logout".

## User Profile

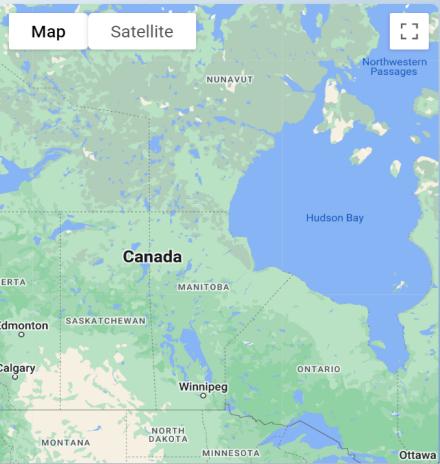
**Name:** Timothy Bron  
**Email:** Tbron@example.com

[Edit Profile](#)

127.0.0.1:5000/auth/logout

← → ⌂ http://127.0.0.1:5000 ☆ A Relaunch to update :

AutoBookr Registration ▾ Login ▾



**AutoBookr**

About

Welcome to Autobookr, the premiere website connecting customers with top-rated mechanics and making appointment booking a breeze. Our platform streamlines the entire process, allowing users to search, compare, and book appointments with trusted professionals with just a few clicks. From routine maintenance to emergency repairs, Autobookr is here to make car maintenance simple and stress-free. Say goodbye to long wait times and endless phone calls - let Autobookr handle all your auto service needs.

With Autobookr, customers have access to a network of qualified mechanics, ensuring peace of mind knowing their vehicle is in good hands. Our user-friendly interface makes it easy to browse through available service providers, read reviews from other users, and select the best mechanic for

## Tips page

User story: As a customer I would like to know the basics for car maintenance

← → ⌂ http://127.0.0.1:5000/auth/tips ☆ A Relaunch to update :

AutoBookr

### Basic Car Maintenance

Need help from the following list? Scroll Down

- Checking Tire Pressure
- Tire Tread
- Battery
- Fluids

#### Checking Tire Pressure

• Before long trips or significant changes in weather, you should check your tire pressure to ensure the proper traction for your vehicle.



## **Table of Contents for Mechanic**

- Login**
- Registration**
- Confirm appointment**
- Reviews**
- Profile**
- Logout**

### **Login**

User story : as a mechanic I would like to login to AutoBookr to have access to my dashboard

The screenshot shows a web browser window with the URL <http://127.0.0.1:5000/auth/login-mechanic>. The page title is "AutoBookr". A central modal window titled "Mechanic Login" contains fields for "Email address" (Jill1@example.com) and "Password" (represented by a series of dots). A blue "Login" button is at the bottom of the modal.

The screenshot shows a web browser window with the URL <http://127.0.0.1:5000>. The page title is "AutoBookr (for mechanics)". On the right, there is a user profile for "Jill AutoMotive". The main content area is titled "Mechanic Dashboard" and features a "View Reviews" button. Below it is a box for an "Appointment with Timothy Bron" on 2024-05-06 at 16:00:00 for a Ford Fiesta 123-34567, with a "Confirm Appointment" button.

## Registration

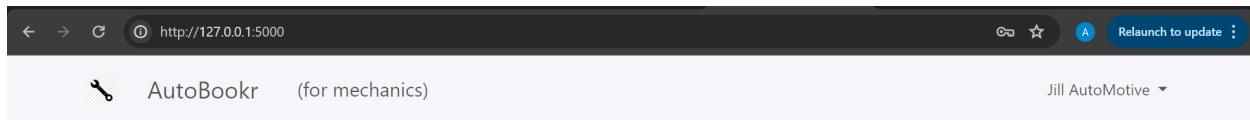
User story: as a mechanic I would like register to AutoBookr to have access to my dashboard

The screenshot shows a web browser window with a registration form. The title bar reads "Registration" and the URL is "http://127.0.0.1:5000/auth/register\_mechanic". The form has a dark blue header with the word "Registration". Below the header are five input fields: "Name" (Jill AutoMotive), "Email address" (Jill1@example.com), "EIN" (13-1234567), "Zip Code" (28318), and "Password" (empty). A blue "Register" button is at the bottom.

Field	Value
Name	Jill AutoMotive
Email address	Jill1@example.com
EIN	13-1234567
Zip Code	28318
Password	(empty)

## Confirm Appointment

User story: as a mechanic I would like to see my customer appointments and be able to confirm the appointment



## Mechanic Dashboard

[View Reviews](#)

### Appointment with Timothy Bron

Time: 2024-05-06 16:00:00

Car: Ford Fiesta 123-34567

[Confirm Appointment](#)

## Mechanic Dashboard

[View Reviews](#)

### Appointment with Timothy Bron

Time: 2024-05-06 16:00:00

Car: Ford Fiesta 123-34567

## Reviews

User story: as a mechanic I would like to see my rating and what customer have to say about their experience

A screenshot of a web browser window. The address bar shows the URL <http://127.0.0.1:5000/mechanic/1/reviews>. The page title is "AutoBookr (for mechanics)". On the right, there is a dropdown menu for "Jill AutoMotive". The main content area displays the title "Mechanic 1" and two reviews. The first review is from "Customer: Customer 255" with a rating of 3.0 on 08/03/2024, with the review text "GHsybPbmE36u9CF5gqbHsE885J06YFkt22H6sZOyoJOK33kiSn". The second review is from "Customer: Customer 763" with a rating of 3.0 on 22/02/2024, with the review text "WMLPJBRJvp4QMeQLTP403yprmjKknQCel5TaskDhPcCllbM7Eu".

## Mechanic 1

Average Rating: 3.0

Zipcode: 20351-8611

### Reviews

Customer: Customer 255

Rating: 3 Date: 08/03/2024

Review: GHsybPbmE36u9CF5gqbHsE885J06YFkt22H6sZOyoJOK33kiSn

Customer: Customer 763

Rating: 3 Date: 22/02/2024

Review: WMLPJBRJvp4QMeQLTP403yprmjKknQCel5TaskDhPcCllbM7Eu

## Profile

User story: As a mechanic I would like update my personal information

A screenshot of a web browser window. The address bar shows the URL <http://127.0.0.1:5000>. The page title is "Mechanic Dashboard". On the right, there is a dropdown menu for "Jill AutoMotive" with options "Profile" and "Logout". The main content area displays the title "Mechanic Dashboard" and a button "View Reviews". Below it is a box containing the text "Appointment with Timothy Bron", "Time: 2024-05-06 16:00:00", and "Car: Ford Fiesta 123-34567".



## Mechanic Profile

**Name:** Jill AutoMotive

**ZIP Code:** 28318

**EIN:** 13-1234567

[Edit Profile](#)



## Edit Mechanic Profile

**Name**

Jill AutoMotive NC

**ZIP Code**

28318

**EIN**

13-1234567

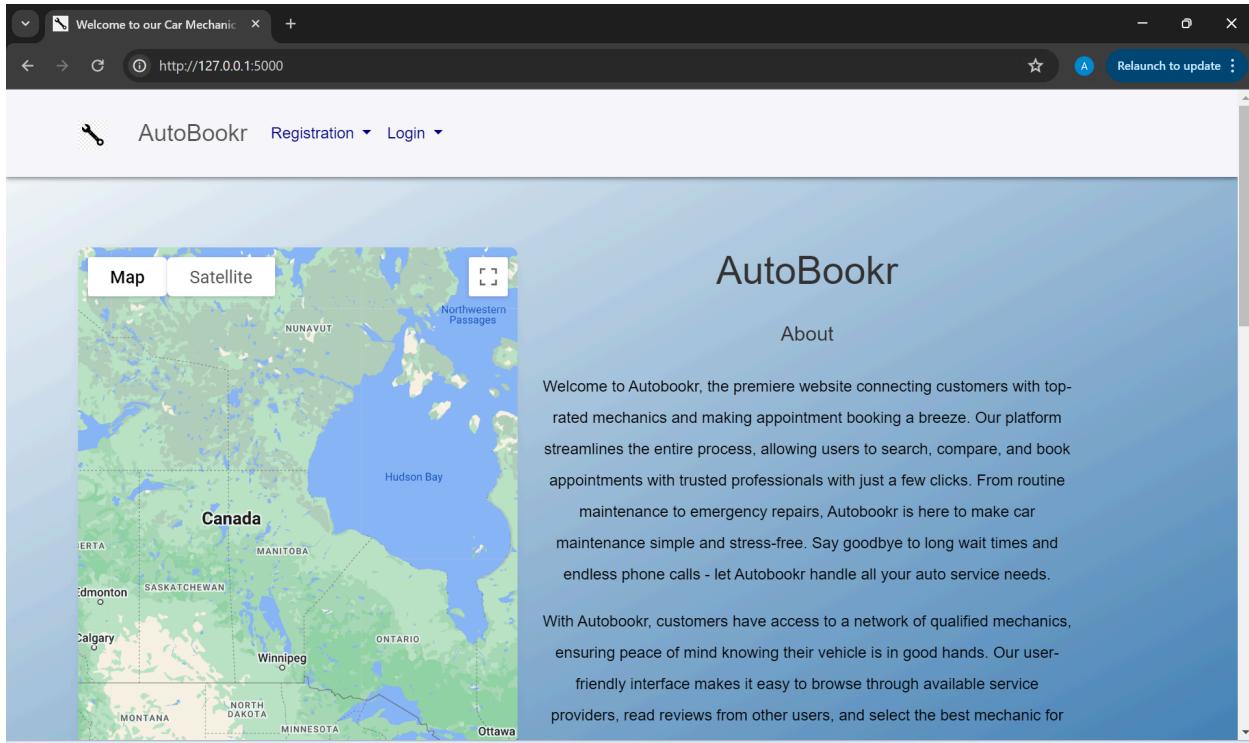
[Save Changes](#)

A screenshot of a web browser window titled "Mechanic Profile". The URL is "http://127.0.0.1:5000/mechanic/profile". The page header includes the AutoBookr logo and the text "(for mechanics)". On the right, it shows the user "Jill AutoMotive NC" with a dropdown arrow. A blue button at the top right says "Relaunch to update". Below the header, a red-bordered box displays the message "Profile updated successfully". The main content area is titled "Mechanic Profile" and contains a summary of the user's information: Name: Jill AutoMotive NC, ZIP Code: 28318, EIN: 13-1234567. A blue "Edit Profile" button is located at the bottom of this section.

## Logout

User story: as a mechanic I would like to logout after a long day on working on customer vehicles

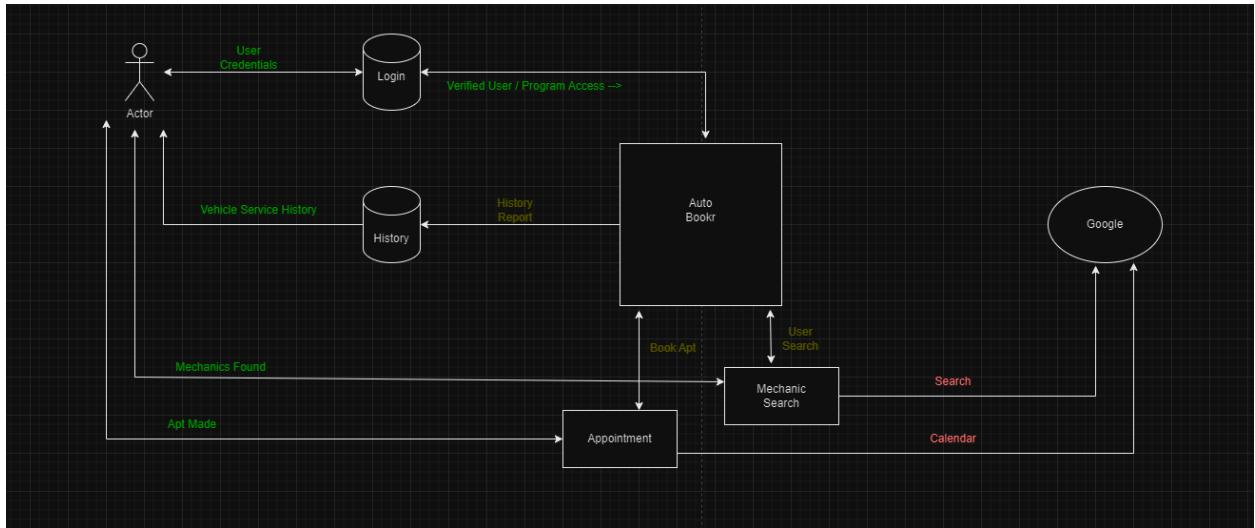
A screenshot of a web browser window titled "Mechanic Profile". The URL is "http://127.0.0.1:5000/mechanic/profile". The page header includes the AutoBookr logo and the text "(for mechanics)". On the right, it shows the user "Jill AutoMotive NC" with a dropdown arrow. A blue button at the top right says "Relaunch to update". Below the header, a red-bordered box displays the message "Profile updated successfully". To the right of the main content area, there is a vertical menu with two options: "Profile" and "Logout". The main content area is titled "Mechanic Profile" and contains a summary of the user's information: Name: Jill AutoMotive NC, ZIP Code: 28318, EIN: 13-1234567. A blue "Edit Profile" button is located at the bottom of this section.



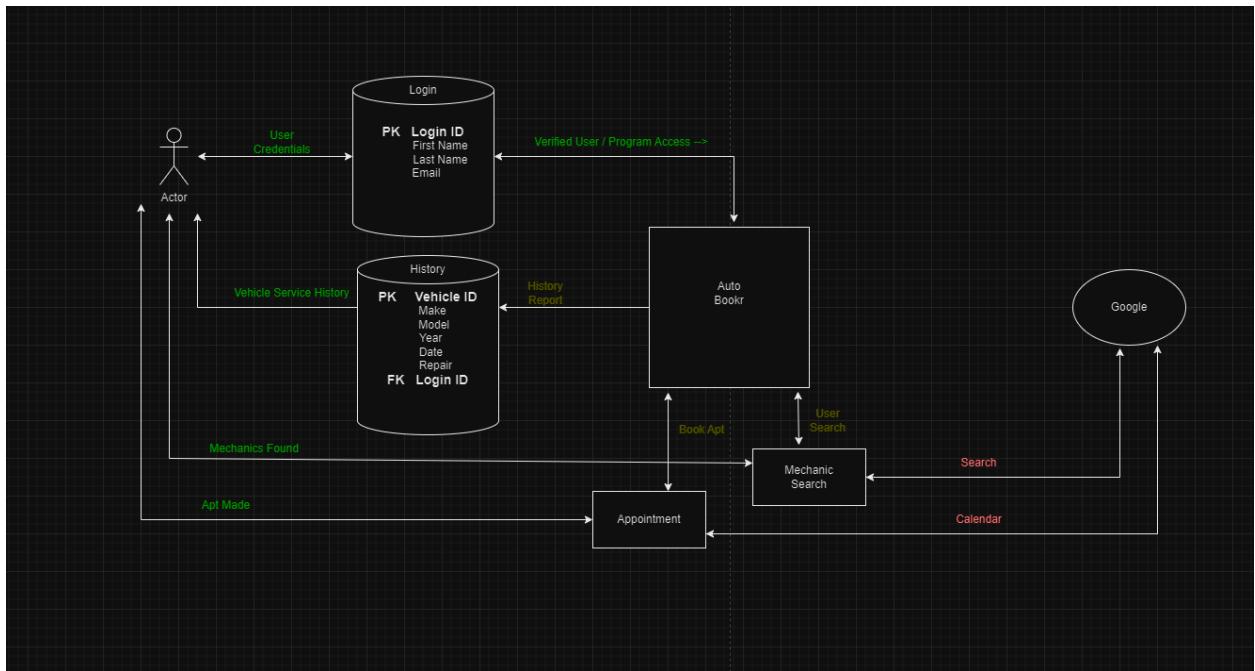
# Artifacts

Context Diagrams, data dictionary, schema

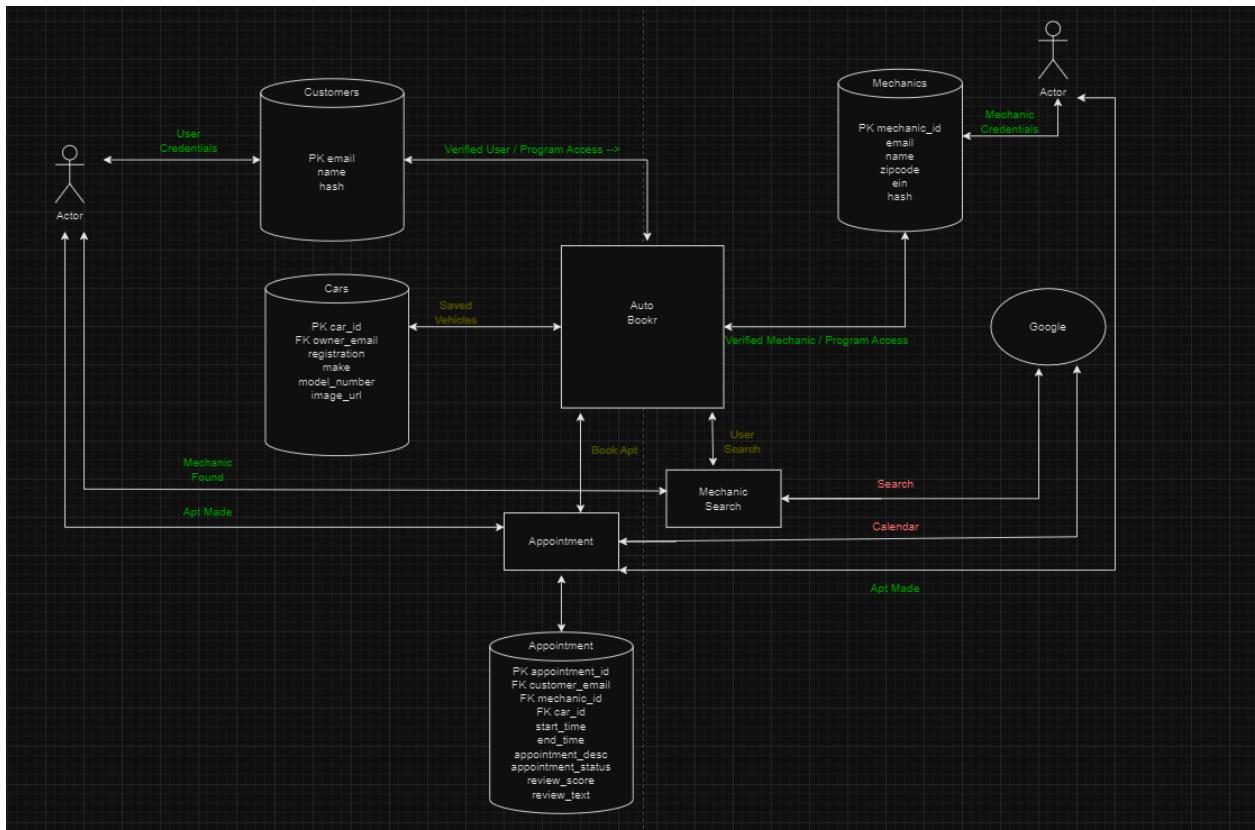
February



March



April



## Data dictionary

»	»	customers
»	»	Columns
»	email	[varchar(320)]
»	name	[varchar(320)]
»	hash	[text]

└ └ ┌ mechanics

└ └ └ ┌ Columns

Or	mechanic_id	[int]
	email	[varchar(320)]
	name	[varchar(320)]
	zipcode	[char(10)]
	ein	[char(10)]
	hash	[text]

└ └ ┌ cars

└ └ └ ┌ Columns

Or	car_id	[int]
	registration	[varchar(20)]
	owner_email	[varchar(320)]
	make	[varchar(100)]
	model_number	[varchar(100)]
	image_url	[text]

appointments

Columns

On	appointment_id	[int]
	customer_email	[varchar(320)]
On	mechanic_id	[int]
On	car_id	[int]
	start_time	[timestamp]
	end_time	[timestamp]
	appointment_description	[text]
	appointment_status	[int]
	review_score	[int]
	review_text	[text]

## Schema

```
1  -- Drop existing tables if they exist
2  DROP TABLE IF EXISTS appointments;
3  DROP TABLE IF EXISTS cars;
4  DROP TABLE IF EXISTS mechanics;
5  DROP TABLE IF EXISTS customers;
6
7  -- Create customers table
8  CREATE TABLE customers (
9      email VARCHAR(320) PRIMARY KEY,
10     name VARCHAR(320) NOT NULL,
11     hash TEXT NOT NULL
12 );
13
14 -- Create mechanics table
15 CREATE TABLE mechanics (
16     mechanic_id INTEGER PRIMARY KEY,
17     email VARCHAR(320) UNIQUE NOT NULL,
18     name VARCHAR(320) NOT NULL,
19     zipcode CHAR(10) NOT NULL,
20     ein CHAR(10) NOT NULL,
21     hash TEXT NOT NULL
22 );
23
24 -- Create cars table
25 CREATE TABLE cars (
26     car_id INTEGER PRIMARY KEY,
27     registration VARCHAR(20) UNIQUE NOT NULL,
28     owner_email VARCHAR(320) NOT NULL,
29     make VARCHAR(100) NOT NULL,
30     model_number VARCHAR(100) NOT NULL,
31     image_url TEXT,
32     FOREIGN KEY (owner_email) REFERENCES customers(email)
33 );
34
35 -- Create appointments table
36 CREATE TABLE appointments (
37     appointment_id INTEGER PRIMARY KEY,
38     customer_email VARCHAR(320) NOT NULL,
39     mechanic_id INTEGER NOT NULL,
40     car_id INTEGER NOT NULL,
41     start_time TIMESTAMP NOT NULL,
42     end_time TIMESTAMP NOT NULL,
43     appointment_description TEXT.
```

```
-- Create appointments table
CREATE TABLE appointments (
    appointment_id INTEGER PRIMARY KEY,
    customer_email VARCHAR(320) NOT NULL,
    mechanic_id INTEGER NOT NULL,
    car_id INTEGER NOT NULL,
    start_time TIMESTAMP NOT NULL,
    end_time TIMESTAMP NOT NULL,
    appointment_description TEXT,
    appointment_status INT NOT NULL,
    review_score INT,
    review_text TEXT,
    FOREIGN KEY (customer_email) REFERENCES customers(email),
    FOREIGN KEY (mechanic_id) REFERENCES mechanics(mechanic_id),
    FOREIGN KEY (car_id) REFERENCES cars(car_id)
);
```

# Entity Relationship

Cars entity

- Foreign key referring to the email in the customer entity, establishing a one to many relationship between customers and cars
- One customer can have multiple cars

```
|  
-- Create cars table
CREATE TABLE cars (
    car_id INTEGER PRIMARY KEY,
    registration VARCHAR(20) UNIQUE NOT NULL,
    owner_email VARCHAR(320) NOT NULL,
    make VARCHAR(100) NOT NULL,
    model_number VARCHAR(100) NOT NULL,
    image_url TEXT,
    FOREIGN KEY (owner_email) REFERENCES customers(email)
);
```

### Appointment entity

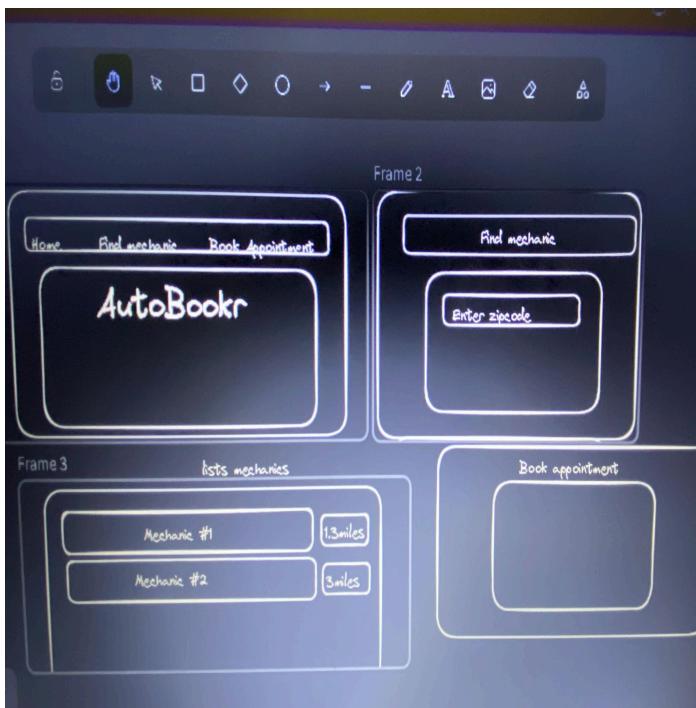
- Foreign key referring to the email in the customer entity,a one to many relationship between customer and appointments
- One customer can have multiple appointments
- Foreign key referring to the mechanic\_id in the mechanic entity, a one to many relationship between mechanic and appointments
- One mechanic can handle multiple appointments
- Foreign key referring to car\_id in the car entity, a one to many relationship between cars and appointments
- One car can have multiple appointments

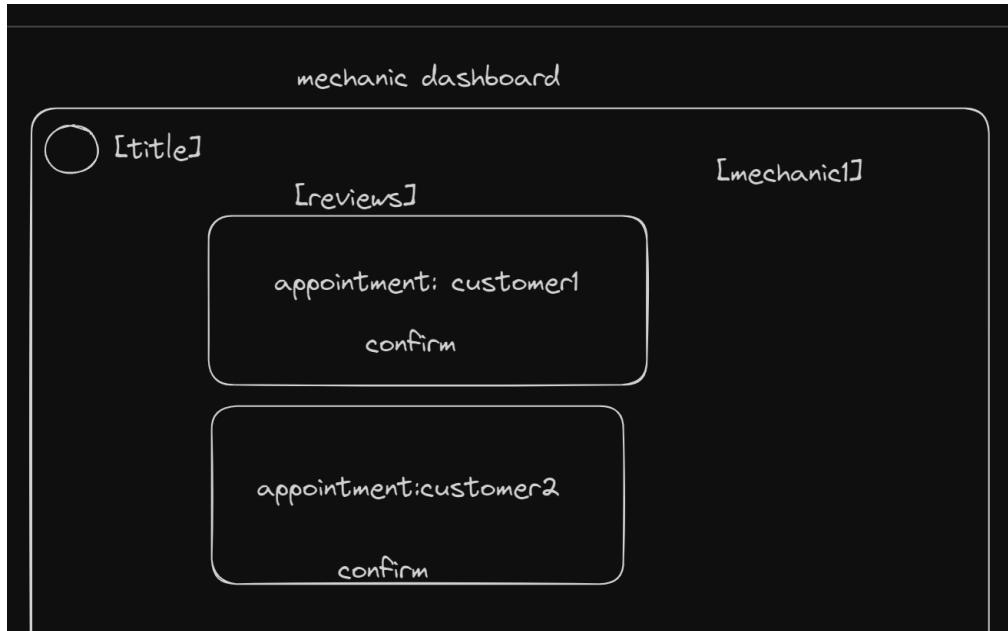
```
-- Create appointments table
CREATE TABLE appointments (
    appointment_id INTEGER PRIMARY KEY,
    customer_email VARCHAR(320) NOT NULL,
    mechanic_id INTEGER NOT NULL,
    car_id INTEGER NOT NULL,
    start_time TIMESTAMP NOT NULL,
    end_time TIMESTAMP NOT NULL,
    appointment_description TEXT,
    appointment_status INT NOT NULL,
    review_score INT,
    review_text TEXT,
    FOREIGN KEY (customer_email) REFERENCES customers(email),
    FOREIGN KEY (mechanic_id) REFERENCES mechanics(mechanic_id),
    FOREIGN KEY (car_id) REFERENCES cars(car_id)
);
```

## Future Plans

Due to funding, we would like to finish up the other features such as updating password, deleting account, uploading profile picture, viewing mechanic profile details. We discussed expanding the sectors to not just maintenance but to cleaning services etc. in the automotive industry. In the future, we would like to expand AutoBookr to mobile development. We were thinking Flutter js would be the best since it's compatible with both IOS and Andriod.

# Mockups





# Source Code

<https://github.com/antonioa6608/C-ORG>

# MIT License