Screen 1: Customer Search

http://localhost:5000/customers

Customer Search

Phone Number: `555-`   [Seach]

Name	Phone	
Giacomo Guilizzoni	555-555-5555	Edit Delete
Marco Botton	555-123-4567	Edit Delete
Mariah Maclachlan	555-987-6543	Edit Delete
Valerie Liberty	555-867-5309	Edit Delete

* screen shows all customers with a phone number that starts with the given search string.
* edit button navigates to customer details screen.
* delete button deletes customer but only if he doesnt participate in any relationships.

Screen 2: Customer Edit

http://localhost:5000/customers/123

Customer Edit

First Name: `Giacomo`

Last Name: `Guilizzoni`

Phone: `555-555-5555`

[Save]

"Save" saves first name, last name and phone.

* "Edit" navigates to vehicle edit screen.
* "Add" does as well, but with empty form.
* Vehicles may be deleted only if they do not participate in any relationships..

⊕ Add Vehicle

VIN	Description	
ABCD123456	2017 Honda Pilot LX	Edit Delete
XYZ1654321	2014 Toyota Tacoma 4x2 TRD	Edit Delete

Screen 3: Vehicle Edit

http://localhost:5000/vehicles/ABC1234

Vehicle Edit

Make: `Honda` ▼

Model: `Pilot` ▼

Trim: `LX` ▼

Year: `2017` ▼

VIN: `ABC123456789`

[Save]

* dropdowns must be filled out in order. each filters the next. use appropriate queries to set available values in each.
* make populates model
* model populates trim.
* trim populates year.

New Invoice

Invoice Search

Customer Phone: `555-555-5555` [Seach]

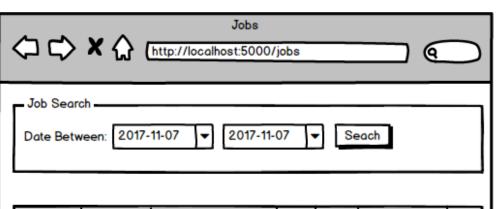| Invoice Date	Invoice Amount	Customer Name	Customer Phone	
2017-01-31	$100.23	Giacomo Guilizzoni	555-555-5555	Edit
2016-06-15	$50.25	Giacomo Guilizzoni	555-555-5555	Edit
2016-01-01	$99.99	Giacomo Guilizzoni	555-555-5555	Edit
2015-05-05	$568.99	Giacomo Guilizzoni	555-555-5555	Edit

* Screen shows all invoices for customers with a phone number that starts with Customer Phone search input.
* No results are displayed until the user clicks "Search". The user is required to specify at least some characters for Customer Phone (no empty search strings).
* The search should allow phone numbers to be specified with or without dashes.
* Edit link navigates to edit invoice page.

Edit Invoice

Invoice Details

Labor Hours:	5
Labor Rate:	$100.00 per hour
Labor Amount:	$500.00
Total Amount:	$620.00
Amount Paid:	$100.00
Amount Owed:	$520.00

* Labor Hours is not editable and is to be inferred from added services.
* Labor Rate is not editable and is seeded/locked-in upon invoice creation from the value contained in the "RATE" table for RT_CODE "std_labor_rate".
* Labor Amount is not editable and is to be inferred from added services (INV_LBR_RATE * SUM(EST_HOURS)).
* Total Amount is not editable and is inferred from INV_LBR_AMT + SUM(P_PRICE).
* Amount Paid is not editable and is inferred from SUM (PAY_AMT).
* Amount Owed is not editable and is inferred from INV_TOTAL_AMT - INV_PAID_AMT.

⊕ Add Service

Adding a service that requires a part that is not on hand should be prevented. Successfully adding the service should decrement the PART QOH by the appropriate quantity. The "Service" shown on this screen is actually represented data-wise by a record in the "JOB" bridge between SERVICE and INVOICE.

Description	
Change Oil	Delete
Install Windshield Wipers	Delete

⊕ Add Part

Adding a part that is not on hand should be prevented. Successfully adding the part should decrement the PART QOH by the appropriate quantity. The PART on this screen is represented in the database by an INVOICE_LINE.

Part No	Description	Qty	Price Each	Ext Price	
OS-12321	10W-30 Synthetic	4	$25	$100	Delete
WW-12345	Windshield Wipers	1	$20	$20	Delete

⊕ Add Payment

Date	Amount	
2017-11-07	$100	Delete

Services, parts and payments that have been added may be deleted (not edited). This operation should delete bridge records - not records in the SERVICE or PART table.

Selecting the "Add" option for a service, part or payment should navigate to the appropriate form screen to collect the required information.

e.g. - the "Add Payment" screen:

Add Payment

Payment Details

Payment Amount: $ `100` . `00`

[Save]

Jobs

← → ✗ ⌂ http://localhost:5000/jobs 🔍

Job Search

Date Between: 2017-11-07 ▼   2017-11-07 ▼   [Seach]

Job Date	Service Desc	Vehicle Desc	Est Hours	Actual Hours	Mech	
2017-11-07	Oil Change	2014 Toyota Tacoma	1		Johnny Walker	Edit

* screen shows all invoices matching the given date range.
* if no end date is specified - match any date greater than the start date. start date is required.
* **default** date range starts at today.
* edit button navigates to job details screen.

Job Assignment

← → ✗ ⌂ http://localhost:5000/jobs/123 🔍

Job

Vehicle Type: 2014 Toyota Tacoma TRD Sport

Service: Oil Change

Mechanic: Johnny Walker ▼

Actual Hours: [1.3]

[Save]

* screen shows job details and assigned mechanic
* mechanic and actual hours are the only editable fields.

* selected mechanic's full history is shown in table.
* selected mechanic's avg efficiency delta is shown adjacent to mechanic history grid.

Mechanic History   Avg Effeciency Delta: 0.25 hrs

Job Date	Service Desc	Est Hours	Actual Hours	Vehicle Desc
2017-01-31	Oil Change	1	1.5	2017 Honda Pilot LX
2017-01-30	Oil Change	1	1	2016 Honda Accord LX