Design Document

Guac N Roll

10/31/2024

Version 1

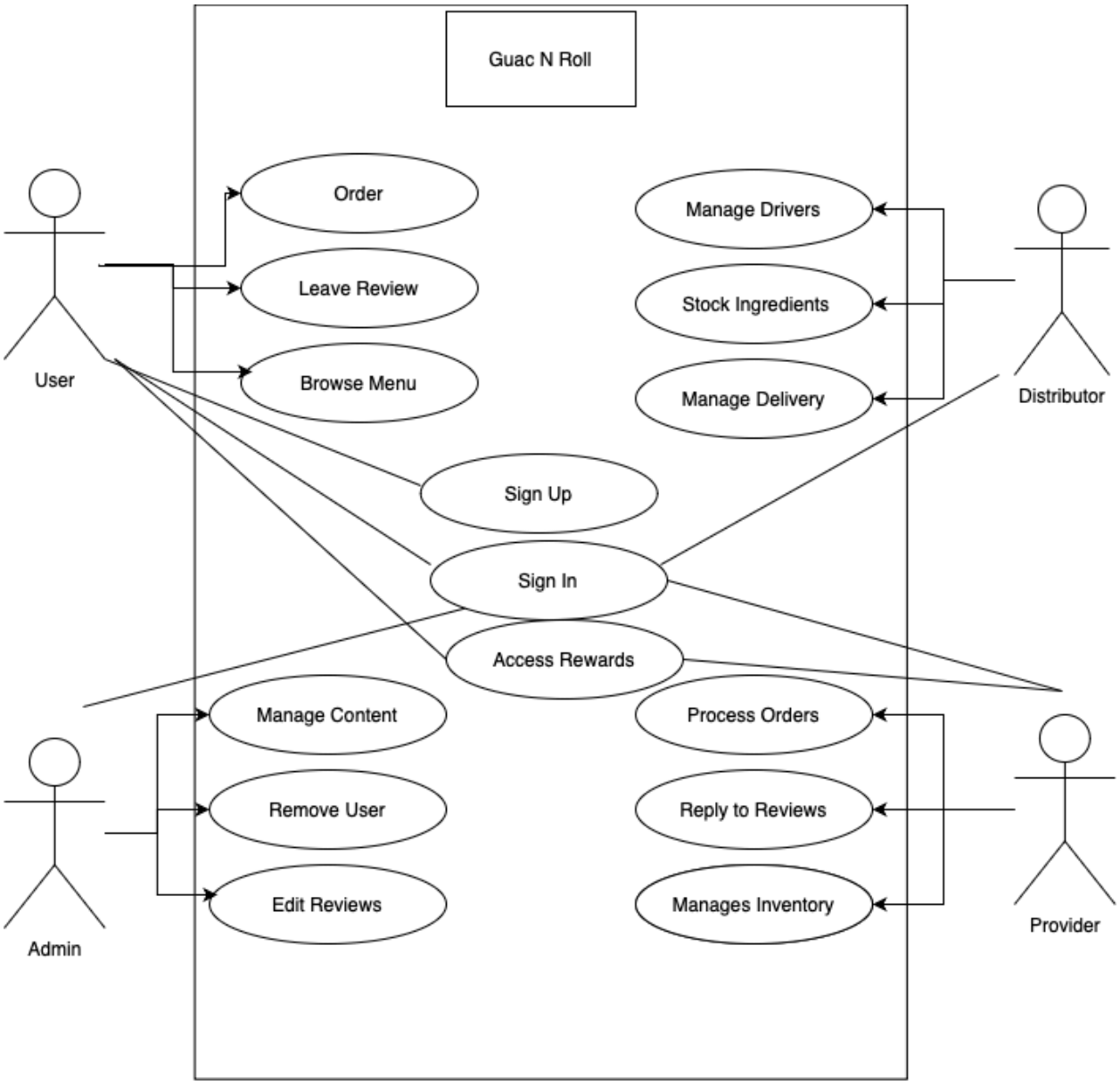
Jacob DeBroder, Devon Moskowitz, Benjamin

Revelo and Sreyes Venkat

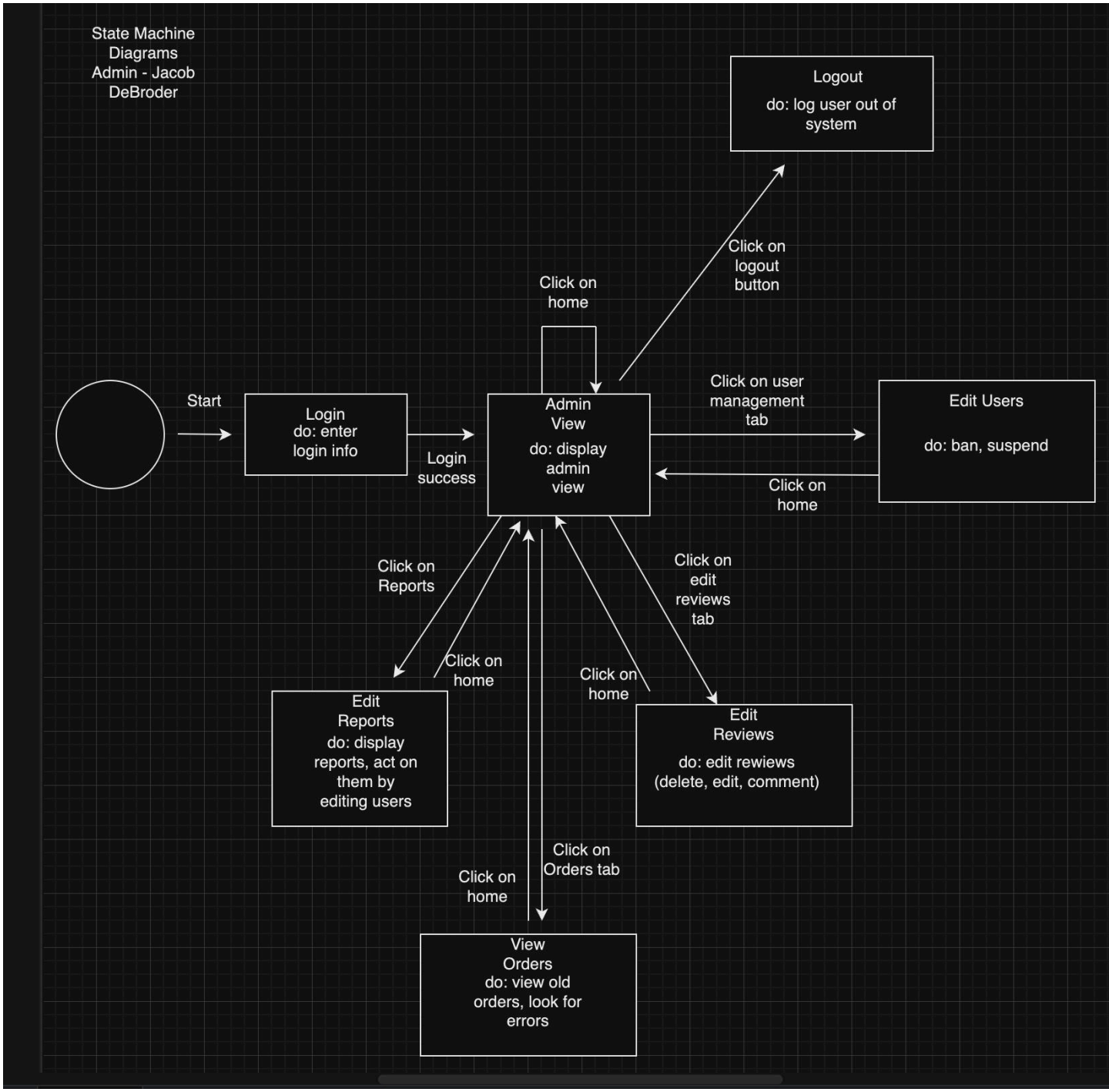
1. Project Overview

The goal of the Guac N Roll web application is to provide customers a convenient and fast way to order food from a variety of Mexican inspired dishes. Customers will be able to go through the menu and add menu items to order, and if they prefer to edit a particular menu item, they can make changes as well. The web application is an interactive website, users will be able to review food items and view other customers' reviews. Customers will also have their own Rewards points system, accruing points proportional to every purchase amount, and those points can in turn be used to buy food items. The web application also provides users a shopping cart that allows customers to keep track of their order, shows subtotal price as the customer builds their order, and has the option to edit or delete an item in the shopping cart. The System Admin is responsible for website moderation and making appropriate website changes if needed.

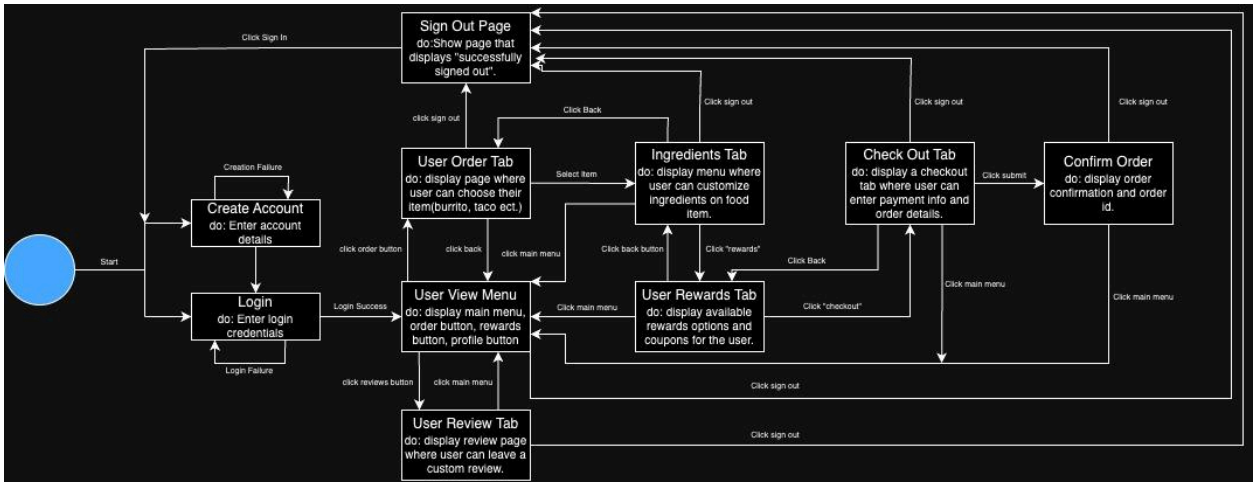
2. Use-Case Model



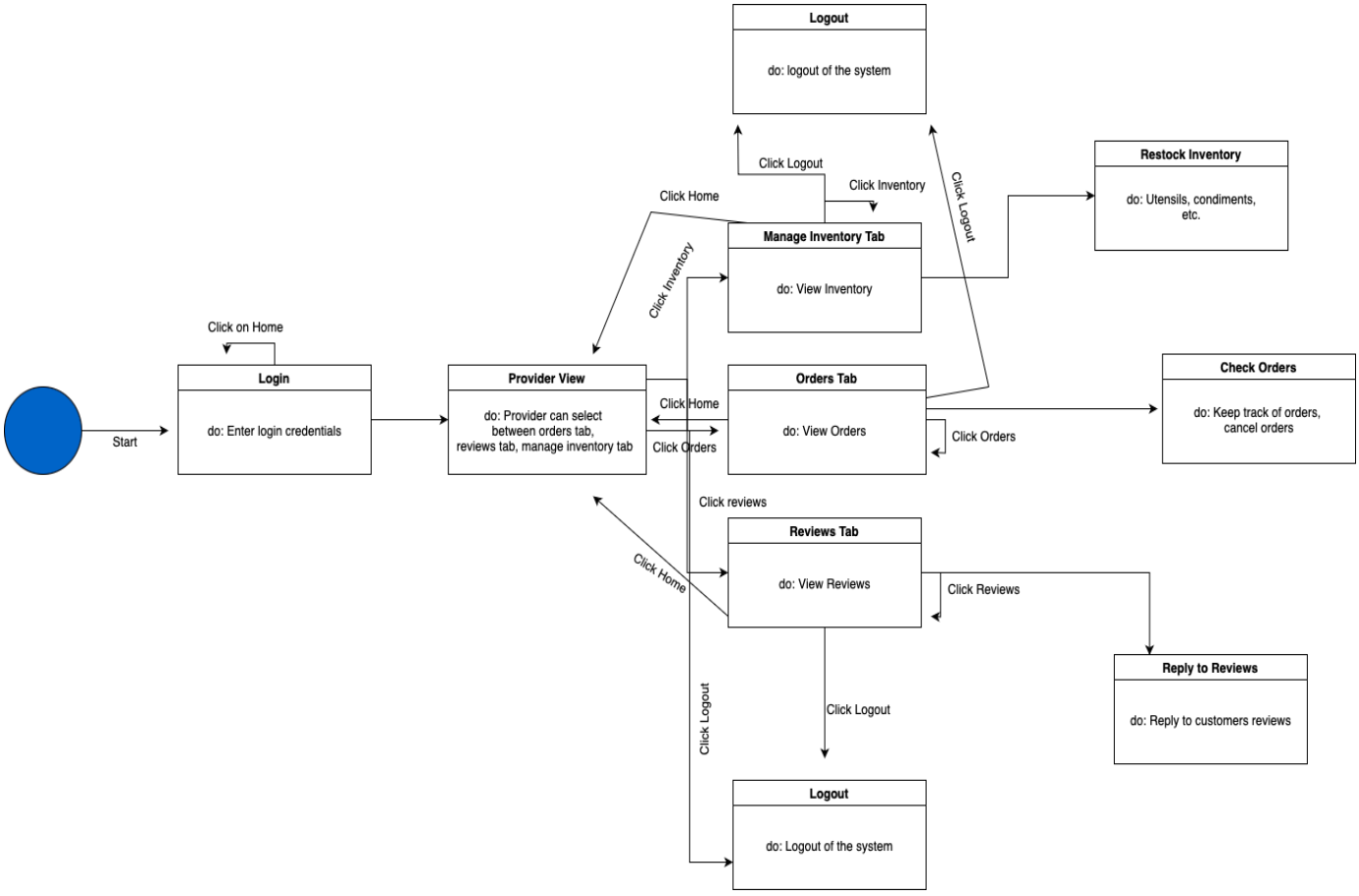
3. State Machine Diagrams
    a. Admin – Jacob DeBroder



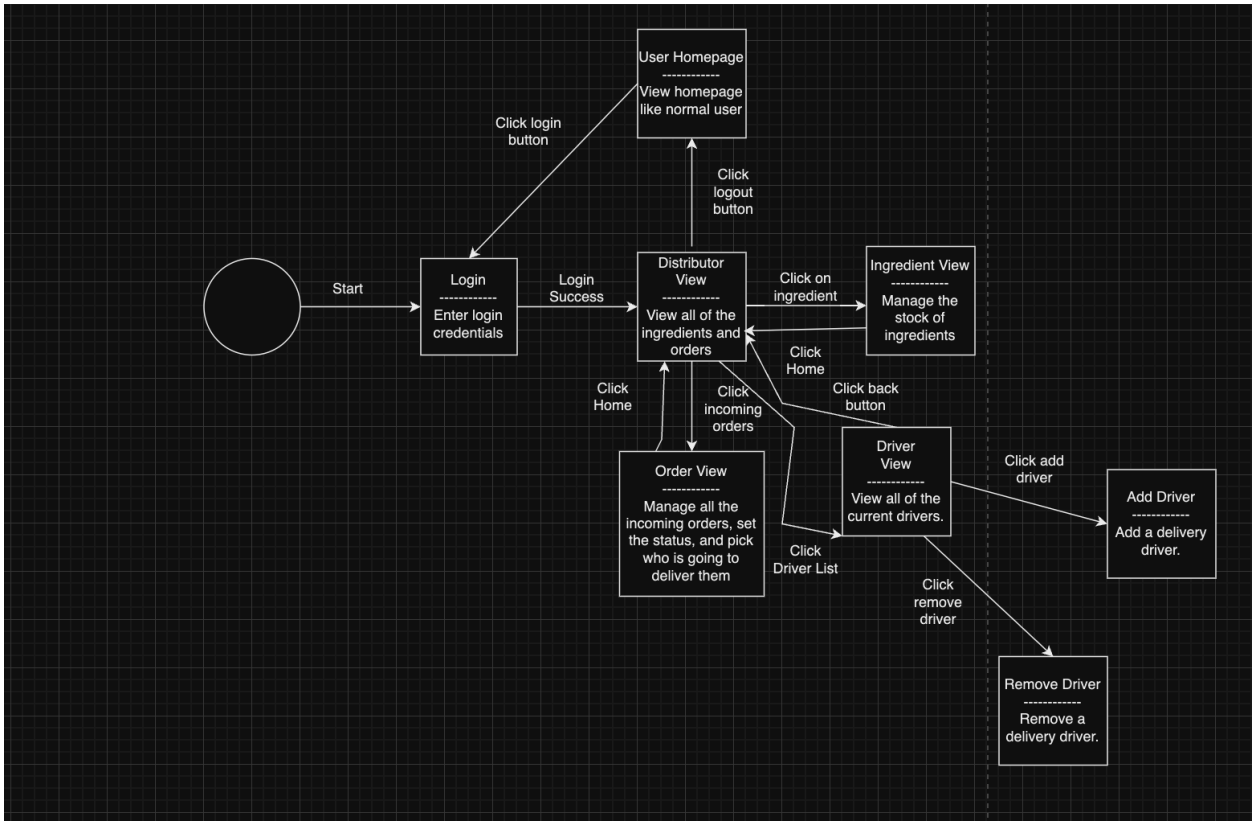
4. User – Sreyes Venkat


Sign Out Page
do:Show page that displays "successfully signed out".
Click Sign In
Start
Create Account
do: Enter account details
Creation Failure
Login
do: Enter login credentials
Login Failure
Login Success
User Order Tab
do: display page where user can choose their item(burrito, taco ect.)
click order button
click sign out
Select item
Ingredients Tab
do: display menu where user can customize ingredients on food item.
Click Back
click back
click main menu
Click back button
Click "rewards"
User View Menu
do: display main menu, order button, rewards button, profile button
click reviews button
click main menu
User Rewards Tab
do: display available rewards options and coupons for the user.
Click main menu
Click "checkout"
User Review Tab
do: display review page where user can leave a custom review.
Check Out Tab
do: display a checkout tab where user can enter payment info and order details.
Click Back
Click submit
Confirm Order
do: display order confirmation and order id.
Click main menu
Click sign out
Click sign out
Click sign out
Click sign out
Click sign out
Click sign out

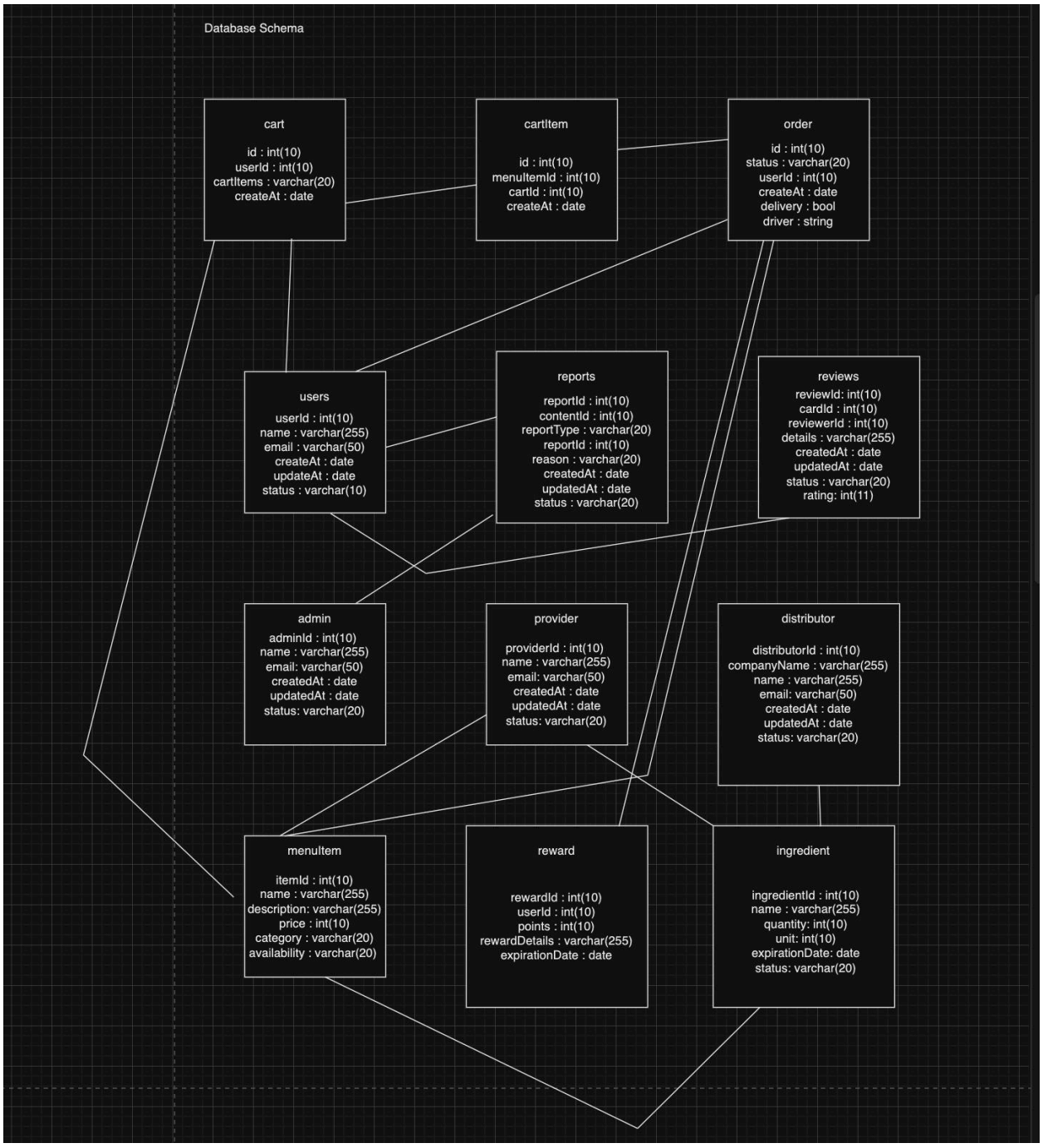
5. Provider – Ben Revelo



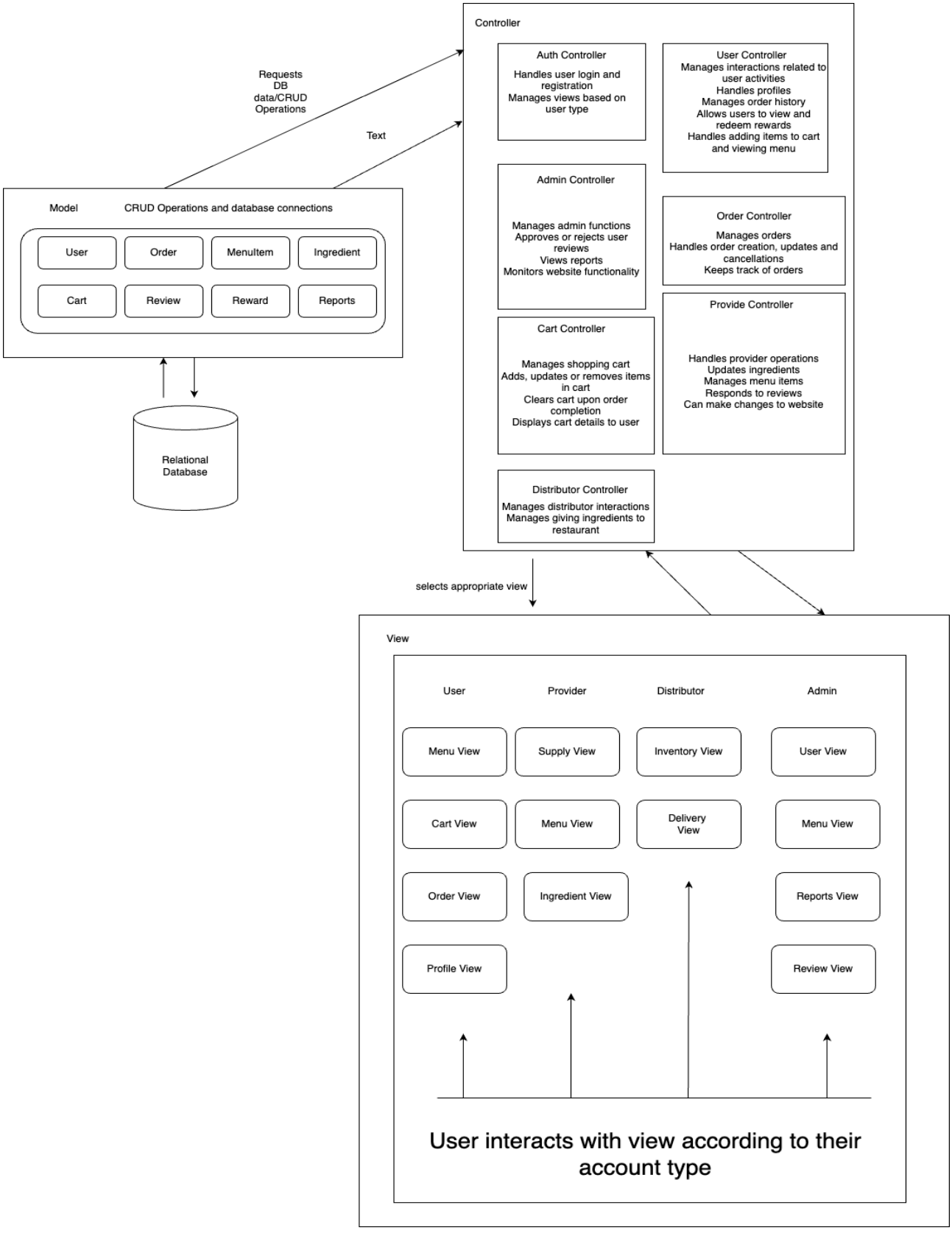
6. Distributor – Devon Moskowitz



7. Database Schema



8. Software Architecture


Controller
Auth Controller
Handles user login and registration
Manages views based on user type
User Controller
Manages interactions related to user activities
Handles profiles
Manages order history
Allows users to view and redeem rewards
Handles adding items to cart and viewing menu
Admin Controller
Manages admin functions
Approves or rejects user reviews
Views reports
Monitors website functionality
Order Controller
Manages orders
Handles order creation, updates and cancellations
Keeps track of orders
Cart Controller
Manages shopping cart
Adds, updates or removes items in cart
Clears cart upon order completion
Displays cart details to user
Provide Controller
Handles provider operations
Updates ingredients
Manages menu items
Responds to reviews
Can make changes to website
Distributor Controller
Manages distributor interactions
Manages giving ingredients to restaurant
Requests
DB
data/CRUD
Operations
Text
Model
CRUD Operations and database connections
User
Order
MenuItem
Ingredient
Cart
Review
Reward
Reports
Relational Database
selects appropriate view
View
User
Provider
Distributor
Admin
Menu View
Supply View
Inventory View
User View
Cart View
Menu View
Delivery View
Menu View
Order View
Ingredient View
Reports View
Profile View
Review View
User interacts with view according to their account type