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Senior Project - Specification  
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**Project Title: Dispatcher**

**Project Github:** <https://github.com/Stanimir7/Dispatcher>

**Project Summary:**

Dispatcher is a service to connect people with businesses. A Clover app will be used as the business's primary interface. The service is best explained through a potential use case: A small pizza shop, Bob's Pizza Shop, uses Clover. They do not have any delivery drivers on staff. Bob's receives a delivery order. The cashier opens our app, inputting the following: Bob's has received an order, it needs to be delivered to an address, and you as a driver will be paid x amount of money from Bob's Pizza Shop for completing this job. The amount to be paid will be determined by the business owner at time of assignment, not to be managed by our service.

Job notifications are sent to a network of people that have registered with a business and may be willing to perform the delivery. One person will claim the job, pick up the order, and perform the delivery.

Our service is sold through the clover marketplace. Business will pay a subscription fee to access the service and potential fee per use. The work of sending notifications and maintaining the network of people that receive notification will be performed from a centralized server.

Additional use cases - essentially any delivery/courier/offsite service industry

- Restaurants
- Flower shop
- Business package courier
- Plumbers\Electricians
- General Contractors

**Project Goals:**

Our goal is to make an application for the clover system to allow businesses to access our service. We will use a Clover app as the main interface for businesses to use in their store front to send out the notifications to the network of people. We will use an SMS sign up system to allow the drivers to sign up for the business owners network as well as sending out an SMS as the notification of a job request. The applicant will receive an SMS to sign up and send back a confirmation. Each driver will have a unique ID, and these IDs as well as an ID for each business will be stored in our database to be accessed when a job is requested. These are the minimum requirements for our project to be considered complete.

## Stretch Goals:

If we have the opportunity, we would like to add these features to our application:

- Create an Android App for users to receive notifications, manage account/signup, etc. if they choose so, instead of through SMS
- Give the owner of the business the ability to specify extra to be paid to person picking up job for some reason, such as the job being outside of their normal area.
- For the people who will be signing up with the business, allow them to register through a web interface as an additional registration portal, rather than through SMS.
- Provide framework for drivers to be paid automatically upon completing a job instead of at some arbitrary point through a paycheck. Amount will be determined by driver and business owner.
- Allow each driver to define their own maximum distance from job to determine if the user is sent a notification about the job, so they will not receive a job that they would not be willing to take.
- As many businesses that just start out would have trouble with finding drivers for them, allow the app to recommend local drivers, from other businesses that use clover in the area, that the new business can use.
- Allow all businesses in an area to have all drivers in that area in one pool that each business can use within a particular skill set.