**Requirements**

**Functional Requirements**

1. Authentication and Access
   1. A user must authenticate using an email address and password before gaining access to the system.
      1. A user must be able to create a new account by providing an email address and password. The user must also provide:
         1. For Customers - An address
         2. For Workers - A list of zip codes willing to travel to.
         3. For Owners – *Can you create owner accounts?*
      2. For future logins, if a user enters an incorrect email address/password combination, they must be allowed to attempt another login.
   2. A user must be categorized as one of the following types:
      1. Customer
      2. Worker
      3. Owner
2. User Account (all permissions premised on authentication)
   1. Account Settings
      1. Any User must be permitted to modify their own email address.
      2. Any User must be permitted to modify their own password.
      3. Any User must not be allowed to modify the email address/password of another user.
      4. A User must not be allowed to modify their account type.
   2. Account Balance
      1. Any User must be allowed to view the balance of their account.
      2. Any User must be allowed to deposit money into their account.
      3. Any User must be allowed to withdraw money from their account.
3. Customer Profile (all permissions premised on authentication)
   1. Account Settings
      1. A Customer must be permitted to modify their physical address.
      2. A Customer must be permitted to blacklist Workers from acquiring a job posted by the Customer.
   2. Post Jobs
      1. A Customer must be permitted to create and post jobs for Workers to acquire.
         1. A job must include a description of the work that needs to be done.
         2. A job must include an expected time to completion for the job.
         3. A job must include a desired completion window for when the job can be performed.
      2. A Customer must be notified when a Worker claims a job they have posted.
      3. A Customer must be permitted to approve Workers that have claimed the Customer’s job.
   3. Updating Jobs
      1. A Customer must be able to change the details of the job if it has not been claimed.
      2. A Customer must not be able to change the details of the job if they have already approved a Worker to perform the job.
   4. Paying Workers
      1. A Customer must be notified when one of their jobs is completed.
      2. A Customer must be required to pay Workers for jobs they have marked as complete.
      3. A Customer must be permitted to add gratuity to their payment of a Worker.
   5. Filing Complaints
      1. A Customer must be permitted to file a complaint/request for reimbursement with the site Owner.
      2. A Customer must be notified if/when they are reimbursed.
4. Worker Profile (all permissions premised on authentication)
   1. Account Settings
      1. A Worker must be permitted to blacklist Customers.
      2. A Worker must be permitted to modify the zip codes they are willing to work in.
   2. Claim Jobs
      1. A Worker must be able to view available jobs within their identified zip codes.
      2. A Worker must be able to claim jobs they would like to work.
         1. When claiming a job, a Worker must define a time they will begin the job.
         2. The time the Worker will begin the job must allow the Worker to complete the job in the expected time before the end of the Customer’s defined window.
      3. A Worker must be notified when a job that they have claimed has been approved by the Customer.
      4. A Worker must not be permitted to claim more than one job if jobs overlap time ranges.
   3. Complete Jobs
      1. A Worker must be able to mark claimed jobs as complete.
         1. A Worker must not be able to mark the job as complete until the scheduled time for the job is complete.
      2. A Worker must be permitted to leave notes for the Customer upon completion of the job.
   4. Cancelling Jobs
      1. A Worker must be permitted to cancel jobs up to 48 hours before the job is scheduled to begin.
      2. A Worker must not be permitted to cancel jobs once there are fewer than 48 hours until start.
5. Owner Profile (all permissions premised on authentication)
   1. Site Settings
      1. An Owner must be permitted to change the commission they receive from each job (system default is 10%).
      2. An Owner must be permitted to deactivate Worker and Customer accounts.
   2. Complaints/Reimbursements
      1. An Owner must be permitted to review complaints submitted by Customers.
      2. An Owner must be permitted to reimburse Customers if their complaint warrants reimbursement.

**Non-Functional Requirements**

1. The application must use a database.
   1. The database must store all information about a User, including but not limited to:
      1. Email Address
      2. Password
      3. Account Type
      4. Physical Address (for Customers)
      5. Workable zip codes (for Workers)
   2. The database must also store all information necessary for tracking jobs, including but not limited to:
      1. Description
      2. Estimated time to completion
      3. Desired completion window
   3. The database must also store all information necessary for supporting the other functions of the application.
2. The team must use GitHub and its associated Project features to implement new changes and manage versions of the project.
   1. Members of the team must submit pull requests which are reviewed by the team in meetings before merging with the main branch.
3. The applciation must be deployable to the web??
4. The application’s user interface must support mobile traffic.