Have you ever been waiting in line at a bar or nightclub and thought to yourself, “I’d pay extra if I could just cut the line”? Cutsies is the first strategy auction game that allows people the possibility of cutting the line. How it works? Establishments that charge a cover like bars and nightclubs will enroll in our auction services. The venue will initiate the auction which will run for a specified amount of time. People standing in line will compete against one another bidding in 25 cent increments with the last bidder winning the right to cut the line. The can cut the line with up to three of their friends, paying the auction price as their cover.

After discussing the goals the client wanted the app to achieve, we created a list of requirements. We needed the app to be compatible with iOS and Android phones, so we chose our framework accordingly. We then created a UML diagram displaying the architecture of our app. Additionally, we decided to develop a second application to represent the two types of users: players and bar affiliates.

A user must be able to register, sign-in, and create a profile of basic information.

We developed this application using the Ionic 2 framework. Our database and user authentication are both backed by Google’s Firestore. Firestore is secure and allows for instantaneous data update between players. For payment processing, we used Stripe. Ionic native plugins were used for geolocation and for uploading user images. Google Maps API was used for the map and geocoding services. Github was our method for source control. Any issues were recorded within our repository and steps to creating the app were recorded within various “wiki” pages. TestFlight was used to deploy the app for testing. Nightwatch via Selenium and Karma were used for testing.

We have two applications, one for each distinct user. Each application supports iOS and Android devices, in a native way. Each application updates auctions in real time for users to participate in. A user can pay an auction and a bar manager can receive payments from the auction.

We are planning to implement multiple auctions per bar, proximity allowance (a user can only join an auction if they are nearby), expand the database and divide the tables within further, and decrease overall load times.