For my capstone, my team and I created a web app in CS132 called Dropped. Dropped is a photo sharing app where people can view and up-vote photos that were taken within a certain radius of the user’s current location. The app idea drew inspiration from similar apps including Yik Yak, Instagram, and Snapchat. From our observations, we've noticed how a photo's location has become increasingly crucial to social media content. When a user takes and uploads a photo on Dropped, the photo's coordinates are stored and will only show up on the newsfeeds of users within a 500-meter radius. On the newsfeed, users are able to interact with photos by voting up or down and writing a comment. Also, users can filter their newsfeeds either by all-time vote popularity or most recent. This was done so users would be able to not only get a sense of what's currently going on at a location, but what has gone on at a location in the past. The last feature on the newsfeed is the ability for users to alter the preset radius. The three options we have allowed are 100, 250, and 500 meters. This is so the app’s filtering system is flexible to different geographies (big cities versus small towns).

Our team of four developers was determined to create this app not only for web use, but also for mobile use. The server-side stack uses Node.js and SQLite, whereas the client-side stack uses JavaScript, JQuery, HTML, and CSS. Other technologies we worked with include geolib which is used to do distance calculation for the radius filter and geocoder which is a wrapper of Google’s geocoder API to return formatted addresses given latitude and longitude coordinates.