

What Platform Will You Use?

Front End: Html, CSS, Javascript

Backend: The CS UGrad Oracle installation and JDBC

Users interact with the front end HTML, CSS, Javascript that communicates with the JDBC, which interacts with the database

What Functionality Will the Final Application Have?

- Interface for Users
 - Query for transit information
 - Whether a particular vehicle is in a particular route
 - Whether a particular stop is in a particular route
 - List close stops near current location
 - Get a route of a particular bus/train
 - Query for user information
 - Add/Modify user information
 - Time when the user's Fare Cards were used
 - User's Fare Cards' number and balance
 - Check FareCard Balance / Add value
- Interface for DB System Manager
 - Add/Modify transit information
 - Add/Modify stop information
 - Modify/Delete user Information
 - Transfer/copy the route from one bus to another
 - Access to vehicle information (bus type, train type, etc)
 - Access to all user information
 - Access to all Fare Cards, and its time used at a particular stop
 - Find a stop that has never been visited by a user
 - Ask whether a user was at a particular stop between a given time period
 - Ask whether a user was on a particular vehicle
 - Check which route a user was on

What Data Will Be In The Final Application?

Basic transit information

- Users
 - UserID, Name, Age
- Fare Cards
 - Card Number
 - Balance

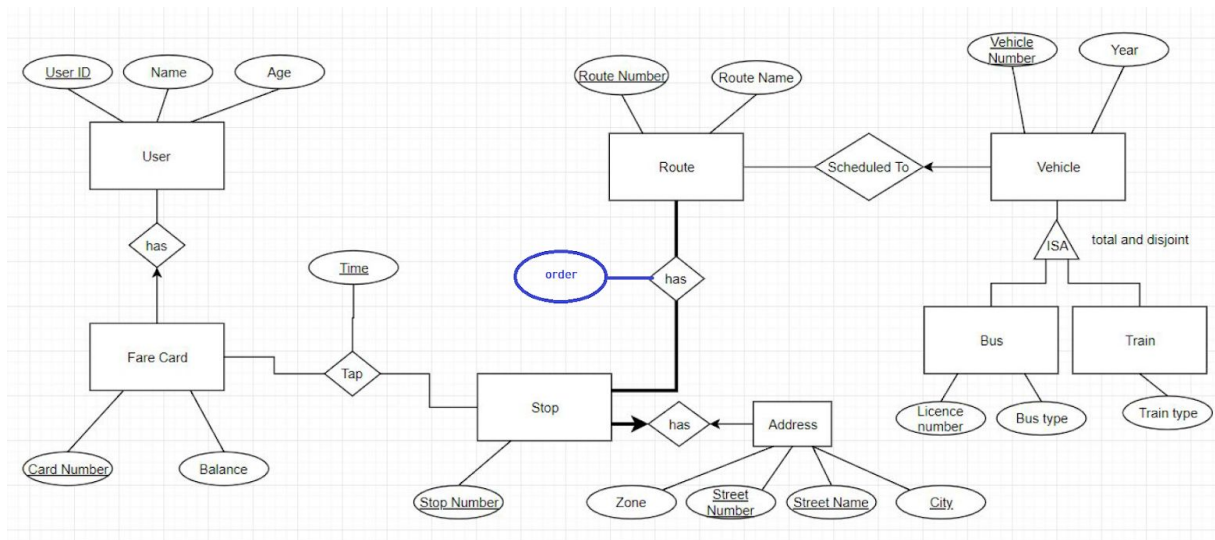
- Who (Users) has the FareCard(s)
- Stops
 - Stop Number
- When (Time) the FareCard was tapped at a Stop
- Address
 - Zone
 - Street Number
 - Street Name
 - City
- What Stop has a given Address
- Route
 - Route Number
 - Route Name
- What Stop has a given Route
- Vehicles
 - Vehicle Number
 - Year
 - Either a Bus OR a Train
 - Bus
 - License Number
 - Bus Type
 - Train
 - Train Type
- What Route the Vehicle is Scheduled to

What Will the Division of Labour be Within Your Team?

- Christopher
 - Setting up the Oracle Database
 - Fill it with *some* basic information
 - Write Java to get queries from the database (using JDBC)
- Jessica
 - Frontend interface for users
- Seongjun
 - Frontend interface for DB System Manager
- Hee Su
 - Set up Oracle JDBC

What Would You Like Feedback On?

- Do the different people who use the database need to be part of the ER diagram as well? E.g. do we need to include *managers* in the database and ER diagram *if* we make an interface for managers to modify the contents of the database (opposed to *users* who cannot modify contents, only *view* them)
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• We made a change highlighted in blue, to denote the *order* of the Stops in a Route, is this ok?

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