



Take-Home Engineering Project Details

Object Definitions:

- An **Account** has the following:
 - **Fields**
 - Id
 - Name
 - Business Name
 - Address
 - Customers
 - **Functionality**
 - Update Name
 - Add Address
 - Add Customer
- A **Customer** has the following:
 - **Fields**
 - Id
 - Account
 - Name
 - Address
 - Work Orders
 - **Functionality**
 - Add Work Order
- A **Work Order** has the following:
 - **Fields**
 - Id
 - Customer
 - Work Type
 - Description
 - Total

Business Rules:

Account:

1. The **Name** field has a maximum character length and a minimum of 32 characters. Inputs that are outside of those bounds should raise an exception.



2. The **Address State** field is required and only allows the following values (abbreviations only): Tx, Ca, Ny and NC.
3. The **Address State** field **cannot** be updated once it is set.

Customer:

1. The following fields are required: **Name** and **Address**.
2. The **Address State** field **can** be updated once it is set.

Work Order:

1. Once the total is set, it cannot be updated.