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# Data Types

|  |  |  |
| --- | --- | --- |
| User |  |  |
| **Attribute** | **Data type** | **Nullable** |
| username | String | Not Null |
| password | String | Not Null |
| first\_name | String | Not Null |
| last\_name | String | Not Null |
| position | String | NULL |

|  |  |  |
| --- | --- | --- |
| Item |  |  |
| **Attribute** | **Data type** | **Nullable** |
| item\_name | String | Not Null |
| description | String | Not Null |
| category | Integer | Not Null |
| condition | Integer | Not Null |
| starting\_bid | Integer | Not Null |
| min\_sales\_price | Integer | Not Null |
| get\_now\_price | Integer | Not Null |
| returns\_allowed | Boolean | Not Null |
| auction\_nbr\_days | Integer | Not Null |

# Business Logic Constraints

## User

* **Users who are new to GT Bay must register first.**
* **Users who have an existing GT Bay account will not be able to register.**

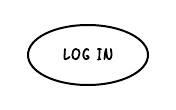
## Item

# Task Decomposition with Abstract Code

## Login

### Task Decomp

**Lock Types:**



**Number of Locks:**

**Enabling Conditions:**

**Frequency:**

**Consistency (ACID):**

**Subtasks:**

### Abstract Code

* **User enters email, password input fields**
* **If data validation is successful**
* **Else email and**

## Register

### Task Decomp



**Lock Types:**

**Number of Locks:**

**Enabling Conditions:**

**Frequency:**

**Consistency (ACID):**

**Subtasks:**

### Abstract Code

* **Else**