**Class Modeling**

**Table Initial Nouns**

|  |  |
| --- | --- |
| agreement | general |
| Payment gateway | potential class |
| use | general |
| service | role |
| property | irrelevant |
| system | potential class |
| years | general |
| people | general |
| problem | general |
| belongings | association |
| use | general |
| store | irrelevant |
| room | attribute |
| things | attribute |
| task | irrelevant |
| records | irrelevant |
| process | association |
| system | Potential class |
| platform | association |
| people | general |
| things | duplicate |
| problem | duplicate |
| description | general |
| emergence | general |
| industries | vague |
| opportunities | vague |
| lives | general |
| people | duplicate |
| paradigm shift | general |
| field | irrelevant |
| need | irrelevant |
| power | irrelevant |
| technology | vague |
| growth | general |
| technology | duplicate |
| people | duplicate |
| opportunities | duplicate |
| lives | duplicate |
| place | duplicate |
| place | duplicate |
| future | general |
| situation | general |
| state | vague |
| furniture | attribute |
| house | attribute |
| car | attribute |
| requirements | method |
| time | vague |
| things | duplicate |
| period | irrelevant |
| time | duplicate |
| waste | vague |
| money | attribute |
| time | duplicate |
| place | duplicate |
| things | duplicate |
| time | duplicate |
| people | duplicate |
| lots | vague |
| things | duplicate |
| occasion | irrelevant |
| shopping | irrelevant |
| spree | vague |
| business | general |
| idea | general |
| potential | general |
| income | attribute |
| returns | attribute |
| investment | irrelevant |
| things | duplicate |
| use | duplicate |
| source | general |
| income | duplicate |
| capital | synonyms |
| hand | general |
| options | method |
| business | duplicate |
| wedding | general |
| party | general |
| goods | duplicate |
| supplies | general |
| rental | potential class |
| types | general |
| equipment | attribute |
| machinery | attribute |
| home staging | vague |
| mobility equipment | attribute |
| software | Potential class |
| opportunity | general |
| technician | Potential class |
| time | general |
| part time jobs | vague |
| technician | duplicate |
| customer | Potential class |
| maintenance | vague |
| requirement | duplicate |
| goods | duplicate |
| rating | Potential class |
| feature | duplicate |
| customers | duplicate |
| selection | general |
| goods | duplicate |
| hire | method |
| customer | duplicate |
| technician | duplicate |
| basis | general |
| work | vague |
| technician | duplicate |
| website | associate |
| credentials | attribute |
| field | general |
| specialization | attribute |
| effort | vague |
| job | irrelevant |
| time | vague |
| capital | duplicate |
| website | duplicate |
| step | vague |
| welfare | general |
| society | general |
| place | duplicate |
| community | irrelevant |
| city | irrelevant |
| ways | general |
| community | duplicate |
| members | general |
| apartment | attribute |
| car | attribute |
| bike | attribute |
| music | attribute |
| system | association |
| laptop | attribute |
| furniture | attribute |
| item | general |
| friends | vague |
| problem | duplicate |
| goods | duplicate |
| equipment | duplicate |
| money | duplicate |
| owner | Potential Class |
| tenants | duplicate |
| money | duplicate |
| website | duplicate |
| transaction | method |
| facility | vague |
| money | duplicate |
| transfer | method |
| tenants | role |
| month | vague |
| rent | duplicate |
| pressure | general |
| owner | duplicate |
| shoulder | vague |
| rent | duplicate |
| records | Potential class |
| transactions | duplicate |
| owner | duplicate |
| tenants | duplicate |
| time | duplicate |
| customer | duplicate |
| person | duplicate |
| owner | duplicate |
| hand | duplicate |
| money | duplicate |
| system | duplicate |
| platform | duplicate |
| people | duplicate |
| things | duplicate |
| service | duplicate |
| maintenance | association |
| functionality | association |
| people | duplicate |
| errands | vague |
| equipment | duplicate |
| problems | duplicate |
| situation | irrelevant |
| platform | duplicate |
| anything | vague |
| everything | vague |
| problem | duplicate |
| people | duplicate |
| agreement | attribute |
| time | duplicate |
| India | general |
| owner | duplicate |
| difficulties | vague |
| things | duplicate |
| conditions | vague |
| features | association |
| software | duplicate |
| skillset | attribute |
| Bank account | Potential Class |
| software | duplicate |
| aim | vague |
| service | duplicate |
| quality | irrelevant |
| people | duplicate |
| online | vague |
| search | vague |
| anything | vague |
| rent | duplicate |
| functionalities | duplicate |
| user | duplicate |
| segment | irrelevant |
| feature | duplicate |
| general | general |
| peer | association |
| things | vague |
| place | duplicate |
| commision | vague |
| customer | duplicate |
| website | duplicate |
| credentials | duplicate |
| name | attribute |
| address | attribute |
| id | attribute |
| number | attribute |
| document | attribute |
| time | duplicate |
| meeting | duplicate |
| tenant | duplicate |
| owner | duplicate |
| reason | vague |
| website | duplicate |
| buyer | Potential Class |
| seller | Potential Class |
| maintain | irrelevant |
| inventory | Potential class |
| guesswork | duplicate |
| item | duplicate |
| availability | Potential class |
| hire | duplicate |
| rent | duplicate |
| maintain | duplicate |
| document | duplicate |
| money | duplicate |
| portal | Potential class |
| owner | duplicate |
| customer | duplicate |
| rent | duplicate |
| seller | duplicate |
| feature | duplicate |
| advertisement | Potential class |
| photos | attribute |
| things | duplicate |
| description | duplicate |
| seller | duplicate |
| price | duplicate |
| instincts | general |
| person | general |
| product | Potential class |
| rent | duplicate |
| seller | duplicate |
| description | duplicate |
| Insurance coverance | Potential class |
| things | duplicate |
| tenure | duplicate |
| system | duplicate |
| functionality | duplicate |
| customer | duplicate |
| touch | vague |
| owner | duplicate |
| meeting | duplicate |
| owner | duplicate |
| rating | Potential class |
| buyer | duplicate |
| basis | vague |
| comfort | general |
| convenience | general |
| buyer | duplicate |
| condition | duplicate |
| product | duplicate |
| buyer | duplicate |
| feature | duplicate |
| buyer | duplicate |
| portal | duplicate |
| buyer | duplicate |
| products | duplicate |
| basis | duplicate |
| need | vague |
| location | Potential class |
| buyer | duplicate |
| things | duplicate |
| area | attribute |
| radius | vague |
| things | duplicate |
| buyer | duplicate |
| rating | duplicate |
| seller | duplicate |
| period | attribute |
| end | vague |
| time | synonyms |
| someone | duplicate |
| something | duplicate |
| rent | duplicate |
| he | general |
| she | general |
| seller | duplicate |
| rating | duplicate |
| buyer | duplicate |
| price | duplicate |
| range | duplicate |
| condition | vague |
| buyer | duplicate |
| seller | duplicate |
| prices | duplicate |
| technician | duplicate |
| feature | duplicate |
| technician | duplicate |
| customer | duplicate |
| request | duplicate |
| technician | duplicate |
| technician | duplicate |
| messages | Potential class |
| customer | duplicate |
| discrepancies | vague |
| technician | duplicate |
| cash | attribute |
| work | duplicate |
| technician | duplicate |
| hassles | vague |
| work | duplicate |
| goal | irrelevant |
| object | vague |
| programing | vague |
| concept | vague |
| modeling | irrelevant |
| ability | vague |
| relationship | association |
| data | Potential class |
| process | duplicate |
| manner | duplicate |
| concept | general |
| computer | general |
| software | vague |
| system | vague |
| analysis | vague |
| design | vague |
| database | Potential class |
| management | association |
| system | duplicate |
| database | duplicate |
| management | duplicate |
| data | duplicate |
| information | duplicate |
| buyer | duplicate |
| seller | duplicate |
| technician | duplicate |
| database | duplicate |
| software | duplicate |
| care | vague |
| communication | association |
| database | duplicate |
| interface | vague |
| user | Potential class |
| software | duplicate |
| place | general |
| data | duplicate |
| advertisement | duplicate |
| document | duplicate |
| buyer | duplicate |
| seller | duplicate |
| chat-application | Potential class |

**TABLE NOUN ANALYSIS**

|  |  |  |
| --- | --- | --- |
| ***Noun*** | ***Acceptance*** | ***Reason*** |
| **Payment** | **Yes** | **Useful because attributes and methods are important.** |
| **System** | **No** | **Too much generalised to be a potential class.** |
| **Rental** | **No** | **Not a potential class** |
| **Software** | **No** | **Not a potential class** |
| **Technician** | **Yes** | **Necessary user category** |
| **Customer** | **No** | **Too much generalised for the system.** |
| **Rating** | **No** | **Attribute** |
| **Record** | **No** | **Too generalised** |
| **User** | **Yes** | **Necessary** |
| **Database** | **No** | **Unnecessary** |
| **Chat-Application** | **Yes** | **Required for conversation.** |
| **Message** | **No** | **Not a potential class** |
| **Data** | **No** | **Not a potential class** |
| **Inventory** | **No** | **Attribute** |
| **Availability** | **No** | **Attribute** |
| **Portal** | **No** | **Too generalised.** |
| **Insurance** | **No** | **Attribute** |
| **Advertisements** | **No** | **Not needed as of now** |
| **Location** | **Yes** | **Useful to locate nearby technician and recommend products in neighbourhood.** |
| **Product** | **Yes** | **Required for describing product.** |
| **Owner** | **Yes** | **Necessary user category** |
| **Hirer** | **Yes** | **Necessary user category** |
| **Seller** | **No** | **Same as Owner** |
| **Bank account** | **Yes** | **Necessary to carry out transactions** |

**Final Potential Classes**

|  |  |  |
| --- | --- | --- |
| ***Noun*** | ***Attributes*** | ***Methods*** |
| **Payment** | **PaymentMode, Buyer\_acc\_no, Seller\_ac\_no,**  **status, buyerID, sellerID** | **doPayment** |
| **User** | **name ,address,**  **rating,userName,contact,EmailID,password,location** | **login,signUp,** |
| **Owner** | **Affidavit, inventoryList,rating** | **makeAffidavit,**  **setRating,**  **getInventoryList,**  **updateInventoryList** |
| **Hirer** | **Affidavit,**  **requiredProducts,rating** | **makeAffidavit,**  **getRating,**  **setRequiredProducts** |
| **Technician** | **Work specialisation,** | **getPayment,**  **setAvailability,**  **addSkillSet** |
| **Bank account** | **Account number,**  **Amount,bank name,branch code** | **checkAmount,**  **printReceipt** |
| **Product** | **name,description,Price,**  **insurance,**  **typeOfProduct,**  **availability,rating,durationOfHire,** | **updatePrice,**  **uploadPhoto,**  **setAvailability,getDurationOfHire,**  **viewProductDetails,**  **addProduct,**  **getproducts(),**  **getProductsSortedPrice,**  **getProductsSortedRating** |
| **Location** | **Address** | **updateLocation,**  **setLocation,getProductsByLocation** |
| **Chat-Application** | **Chat room** | **startServer, clientChaWindow,** |

**Class Diagram**

