### Models

**User**

| **Column** | **DataType** | **Nullable** | **Default** | **Unique** | **Type Specific Params** |
| --- | --- | --- | --- | --- | --- |
| user\_id | AutoField | NA | NA | NA | primary\_key=True |
| email | EmailField | False | None | True | max\_length=100 |
| first\_name | CharField | False | None | False | max\_length=100 |
| last\_name | CharField | False | None | False | max\_length=100 |
| gender | CharField | False | None | False | max\_length=1  choices=((‘MALE’,’MALE’),(‘FEMALE’,’FEMALE’),(‘OTHER’,’OTHER’)) |
| date\_of\_birth | DateField | False | None | False | None |
| country | ForeignKey | False | None | False | relation=**Country** |
| date\_joined | DateTimeField | False | None | False | auto\_now\_add=True |
| is\_admin | BooleanField | False | False | False | None |

**UserProfile**

| **Column** | **DataType** | **Nullable** | **Default** | **Unique** | **Type Specific Params** |
| --- | --- | --- | --- | --- | --- |
| user\_profile\_id | AutoField | NA | NA | NA | primary\_key=True |
| user | ForeignKey | False | None | True | relation=**User** |
| song\_genre\_pref | CharField |  |  |  | example=”Comedy,Thriller,Horror…” |
| movie\_genre\_pref | CharField |  |  |  |  |
| book\_genre\_pref | CharField |  |  |  |  |

* **Ideas:** 
  + Genres sorted in order of preference (comma delimited)

**ProductView**

| **Column** | **DataType** | **Nullable** | **Default** | **Unique** | **Type Specific Params** |
| --- | --- | --- | --- | --- | --- |
| product\_view\_id | AutoField | NA | NA | NA | primary\_key=True |
| user\_id | ForeignKey | False | None | False | relation=**User** |
| song\_id | ForeignKey | True | None | False | relation=**Song** |
| book\_id | ForeignKey | True | None | False | relation=**Book** |
| movie\_id | ForeignKey | True | None | False | relation=**Movie** |
| time\_viewed | DateTimeField | False | None | False | auto\_now\_add=True |

**Song**

| **Column** | **DataType** | **Nullable** | **Default** | **Unique** | **Type Specific Params** |
| --- | --- | --- | --- | --- | --- |
| song\_id | AutoField | NA | NA | NA | primary\_key=True |
| uuid | UUIDField | False | uuid4 | True | editable=False |
| title | CharField | False | None | False | max\_length=100 |
| description | CharField | True | None | False | max\_length=500 |
| genre | CharField | False | None | False | choices=() |
| tags | CharField | True | None | False | max\_length=200 |
| artist\_name | CharField | False | None | False | max\_length=50 |
| featured\_artists\_names | CharField | True | None | False | max\_length=200 |
| price | DecimalField | False | None | False | max\_digits=5  deimal\_places=2 |
| duration | DurationField | False | None | False | None |
| image (thumbnail\_url) | CharField | True | None | False | max\_length=200 |
| language | ForeignKey | False | None | False | relation=**Language**  choices=() |
| popularity | IntegerField | True | None | False | None |

**Movie**

| **Column** | **DataType** | **Nullable** | **Default** | **Unique** | **Type Specific Params** |
| --- | --- | --- | --- | --- | --- |
| movie\_id | AutoField | NA | NA | NA | primary\_key=True |
| uuid | UUIDField | False | uuid4 | False | editable=False |
| title | CharField | False | None | False | max\_length=100 |
| description | CharField | True | None | False | max\_length=500 |
| genre | CharField | False | None | False | max\_length=30  choices=() |
| tags | CharField | True | None | False | max\_length=200 |
| director | CharField | False | None | False | max\_length=50 |
| actors | CharField | True | None | False | max\_length=200 |
| price | DecimalField | False | None | False | max\_digits=5  deimal\_places=2 |
| duration | DurationField | False | None | False | None |
| age\_rating | CharField | False | ‘PG’ | False | max\_length=10 |
| year | IntegerField | False | None | False | None |
| thumbnail\_url | CharField | True | None | False | max\_length=200 |
| language | ForeignKey | False | None | False | relation=**Language** |
| popularity | IntegerField | True | None | False | None |

**Book**

| **Column** | **DataType** | **Nullable** | **Default** | **Unique** | **Type Specific Params** |
| --- | --- | --- | --- | --- | --- |
| book\_id | AutoField | NA | NA | NA | primary\_key=True |
| uuid | UUIDField | False | uuid4 | False | editable=False |
| title | CharField | False | None | False | max\_length=100 |
| description | CharField | True | None | False | max\_length=500 |
| genre | CharField | False | None | False | max\_length=30  choices=() |
| tags | CharField | True | None | False | max\_length=200 |
| author | CharField | False | None | False | max\_length=50 |
| co\_authors | CharField | True | None | False | max\_length=200 |
| price | DecimalField | False | None | False | max\_digits=5  decimal\_places=2 |
| page\_count | IntegerField | False | None | False | None |
| year\_published | IntegerField | False | None | False | None |
| thumbnail\_url | CharField | True | None | False | max\_length=200 |
| language | ForeignKey | False | None | False | relation=**Language** |
| popularity | IntegerField | True | None | False | None |

**CartItem**

| **Column** | **DataType** | **Nullable** | **Default** | **Unique** | **Type Specific Params** |
| --- | --- | --- | --- | --- | --- |
| cart\_item\_id | AutoField | NA | NA | NA | primary\_key=True |
| user\_id | ForeignKey | False | None | False | relation=**User** |
| song\_id | ForeignKey | True | None | False | relation=**Song** |
| book\_id | ForeignKey | True | None | False | relation=**Book** |
| movie\_id | ForeignKey | True | None | False | relation=**Movie** |
| time\_added | DateTimeField | False | None | False | auto\_now\_add=True |

**Purchase**

| **Column** | **DataType** | **Nullable** | **Default** | **Unique** | **Type Specific Params** |
| --- | --- | --- | --- | --- | --- |
| purchase\_id | AutoField | NA | NA | NA | primary\_key=True |
| user\_id | ForeignKey | False | None | False | relation=**User** |
| song\_id | ForeignKey | True | None | False | relation=**Song** |
| book\_id | ForeignKey | True | None | False | relation=**Book** |
| movie\_id | ForeignKey | True | None | False | relation=**Movie** |
| time\_of\_purchase | DateTimeField | False | None | False | auto\_now\_add=True |

**Country**

| **Column** | **DataType** | **Nullable** | **Default** | **Unique** | **Type Specific Params** |
| --- | --- | --- | --- | --- | --- |
| country\_id | AutoField | NA | NA | NA | primary\_key=True |
| name | CharField | False | None | True | max\_length=100 |
| uuid | CharField | False | None | True | max\_length=10 |
| language | ForeignKey | True | None | False | relation=**Language** |

**Language**

| **Column** | **DataType** | **Nullable** | **Default** | **Unique** | **Type Specific Params** |
| --- | --- | --- | --- | --- | --- |
| language\_id | AutoField | NA | NA | NA | primary\_key=True |
| name | CharField | False | None | True | max\_length=50 |
| uuid | UUIDField | False | uuid4 | True | editable=False |

**Follow**

| **Column** | **DataType** | **Nullable** | **Default** | **Unique** | **Type Specific Params** |
| --- | --- | --- | --- | --- | --- |
| follow\_id | AutoField | NA | NA | NA | primary\_key=True |
| user\_id | ForeignKey | False | None | False | relation=**User** |

* **Follow what specifically?**