ITP4924 EA Assignment

1. Team Information  
  
Project Title:   
Group:   
Member 1: CHEUNG HOI  
Member 2: SHEK HO YIN   
Member 3: KWOK HO MING  
Member 4: DU SONG QING

2. User Interface   
  
2.1 Home page Done by: Shek Ho Yin  
  
  
  
2.2 News page Done by: Cheung Hoi  
  
  
  
2.3 Admin page Done by: Cheung Hoi

2.4 About page Done by: Du Song Qing

2.5 Movie page Done by: Kwok Ho Ming

2.6 Cinema page Done by: Shek Ho Yin

3. Table Structure  
Name: User Done by: Cheung Hoi

|  |
| --- |
| Class User(Model): |
|  | \_\_tablename\_\_ = 'ab\_user' |
|  | id = Column(Integer, Sequence('ab\_user\_id\_seq'), primary\_key=True) |
|  | first\_name = Column(String(64), nullable=False) |
|  | last\_name = Column(String(64), nullable=False) |
|  | username = Column(String(64), unique=True, nullable=False) |
|  | password = Column(String(256)) |
|  | active = Column(Boolean) |
|  | email = Column(String(64), unique=True, nullable=False) |
|  | last\_login = Column(DateTime) |
|  | login\_count = Column(Integer) |
|  | fail\_login\_count = Column(Integer) |
|  | roles = relationship('Role', secondary=assoc\_user\_role, backref='user') |
|  | created\_on = Column(DateTime, default=datetime.datetime.now, nullable=True) |
|  | changed\_on = Column(DateTime, default=datetime.datetime.now, nullable=True) |

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| --- | --- | --- | --- | --- |
| Name | Type | required | Constraints | Key |
| id | int  unsigned | Yes |  | Primary |
| first\_name | varchar(64) | Yes |  |  |
| last\_name | varchar(64) | Yes |  |  |
| username | varchar(64) | Yes | Unique |  |
| password | varchar(256) | No |  |  |
| active | boolean | No |  |  |
| email | varchar(64) | Yes | Unique |  |
| last\_login | timestamp | No |  |  |
| login\_count | int | No |  |  |
| fail\_login\_count | int | No |  |  |
| created\_on | timestamp | Yes | Default current\_timestamp |  |
| changed\_on | timestamp | Yes | Default current\_timestamp |  |

Name: Role Done by: Cheung Hoi

|  |
| --- |
| class Role(Model): |
|  | \_\_tablename\_\_ = 'ab\_role' |
|  |  |
|  | id = Column(Integer, Sequence('ab\_role\_id\_seq'), primary\_key=True) |
|  | name = Column(String(64), unique=True, nullable=False) |
|  | permissions = relationship( |
|  | 'PermissionView', |
|  | secondary=assoc\_permissionview\_role, |
|  | backref='role' |
|  | ) |

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| --- | --- | --- | --- | --- |
| Name | Type | required | Constraints | Key |
| id | int  unsigned | Yes |  | Primary |
| name | Varchar(64) | Yes | Unique |  |

Name: UserRole Done by: Cheung Hoi

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| --- |
| assoc\_user\_role = Table( |
|  | 'ab\_user\_role', Model.metadata, |
|  | Column('id', Integer, Sequence('ab\_user\_role\_id\_seq'), primary\_key=True), |
|  | Column('user\_id', Integer, ForeignKey('ab\_user.id')), |
|  | Column('role\_id', Integer, ForeignKey('ab\_role.id')), |
|  | UniqueConstraint('user\_id', 'role\_id') |
|  | ) |

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| --- | --- | --- | --- | --- |
| Name | Type | required | Constraints | Key |
| user\_id | int  unsigned | Yes |  | Foreign |
| Role\_id | int  unsigned | Yes |  | Foreign |

Name Permission Done by: Du Song Qing

|  |
| --- |
| class Permission(Model): |
|  | \_\_tablename\_\_ = 'ab\_permission' |
|  | id = Column(Integer, Sequence('ab\_permission\_id\_seq'), primary\_key=True) |
|  | name = Column(String(100), unique=True, nullable=False) |
|  |  |

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| Name | Type | required | Constraints | Key |
| id | int  unsigned | Yes |  | Primary |
| name | varchar(100) | Yes | Unique |  |

Name: ViewMenu Done by: Du Song Qing

|  |
| --- |
| class ViewMenu(Model): |
|  | \_\_tablename\_\_ = 'ab\_view\_menu' |
|  | id = Column(Integer, Sequence('ab\_view\_menu\_id\_seq'), primary\_key=True) |
|  | name = Column(String(100), unique=True, nullable=False) |
|  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Type | required | Constraints | Key |
| id | int  unsigned | Yes |  | Primary |
| name | Varchar(100) | Yes | Unique |  |

Name: Permission View Done by: Du Song Qing

|  |
| --- |
| class PermissionView(Model): |
|  | \_\_tablename\_\_ = 'ab\_permission\_view' |
|  | \_\_table\_args\_\_ = (UniqueConstraint('permission\_id', 'view\_menu\_id'),) |
|  | id = Column(Integer, Sequence('ab\_permission\_view\_id\_seq'), primary\_key=True) |
|  | permission\_id = Column(Integer, ForeignKey('ab\_permission.id')) |
|  | permission = relationship("Permission") |
|  | view\_menu\_id = Column(Integer, ForeignKey('ab\_view\_menu.id')) |
|  | view\_menu = relationship("ViewMenu") |

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| --- | --- | --- | --- | --- |
| Name | Type | required | Constraints | Key |
| id | int  unsigned | Yes |  | Primary |
| permission\_id | int  unsigned | Yes |  | Foreign |

Name: PermissionViewRole Done by: Shek Ho Yin

|  |
| --- |
| assoc\_permissionview\_role = Table( |
|  | 'ab\_permission\_view\_role', Model.metadata, |
|  | Column('id', Integer, Sequence('ab\_permission\_view\_role\_id\_seq'), primary\_key=True), |
|  | Column('permission\_view\_id', Integer, ForeignKey('ab\_permission\_view.id')), |
|  | Column('role\_id', Integer, ForeignKey('ab\_role.id')), |
|  | UniqueConstraint('permission\_view\_id', 'role\_id') |
|  | ) |

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| --- | --- | --- | --- | --- |
| Name | Type | required | Constraints | Key |
| id | int  unsigned |  |  | Primary |
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Name: cinema Done by: Kwok Ho Ming

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| --- |
| Class ciema(Model): |
|  | \_\_tablename\_\_ = 'ab\_user' |
|  | Cinema\_id = Column(Integer, Sequence('ab\_user\_id\_seq'), primary\_key=True) |
|  | Cinema\_name = Column(String(64), nullable=False) |
|  | Cinema\_area = Column(String(64), nullable=False) |
|  | Cinema\_number = Column(String(64), unique=True, nullable=False) |
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| --- | --- | --- | --- | --- |
| Name | Type | required | Constraints | Key |
| Cinema\_id | int  unsigned | Yes |  | Primary |
| Cinema\_name | varchar(64) | Yes |  |  |
| Cinema\_area | varchar(64) | Yes |  |  |
| Cinema\_number | int | Yes |  |  |
| Product\_id | int  unsigned | Yes |  | Foreign |
| Event\_id | int  unsigned | Yes |  | Foreign |
| Movie\_id | int  unsigned | Yes |  | Foreign |

Name: movie Done by: Kwok Ho Ming

|  |
| --- |
| Class movie(Model): |
|  | \_\_tablename\_\_ = 'ab\_user' |
|  | Movie\_id = Column(Integer, Sequence('ab\_user\_id\_seq'), primary\_key=True) |
|  | Movie\_name = Column(String(64), nullable=False) |
|  | Movie\_time = Column(DateTime), nullable=False) |
|  | Movie\_price = Column(Integer), unique=True, nullable=False) |
|  | Movie\_type = Column(String(64)  Movie\_house = Column(Integer) |
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| --- | --- | --- | --- | --- |
| Name | Type | required | Constraints | Key |
| Movie\_id | int  unsigned | Yes |  | Primary |
| Movie\_name | varchar(64) | Yes |  |  |
| Movie\_time | date | Yes |  |  |
| Movie\_price | int | Yes |  |  |
| Movie\_type | varchar(64) | Yes |  |  |
| advertising\_id | int  unsigned | Yes |  | Foreign |
|  |  |  |  |  |
| Movie\_house | varchar(64) | Yes |  |  |
| Product\_id | int  unsigned | Yes |  | Foreign |
| Event\_id | int  unsigned | Yes |  | Foreign |
| advertising\_id | int  unsigned | Yes |  | Foreign |
| Cinema\_id | int  unsigned | Yes |  | Foreign |

Name: advertising Done by: Shek Ho Yin

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| --- |
| Class advertising(Model): |
|  | \_\_tablename\_\_ = 'ab\_user' |
|  | advertising\_id = Column(Integer, Sequence('ab\_user\_id\_seq'), primary\_key=True) |
|  | advertising\_news = Column(String(64), nullable=False) |
|  | advertising\_discount = Column(Integer), nullable=False) |
|  | advertising\_date = Column(DateTime), unique=True, nullable=False) |
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| --- | --- | --- | --- | --- |
| Name | Type | required | Constraints | Key |
| advertising\_id | int  unsigned | Yes |  | Primary |
| advertising\_news | varchar(64) | Yes |  |  |
| advertising\_discount | int | Yes |  |  |
| advertising\_date | Date | Yes |  |  |
| Movie\_id | int  unsigned | Yes |  | Foreign |
| Event\_id | int  unsigned | Yes |  | Foreign |
| Product\_id | int  unsigned | Yes |  | Foreign |

Name: Product Done by: Shek Ho Yin

|  |
| --- |
| Class Product(Model): |
|  | \_\_tablename\_\_ = 'ab\_user' |
|  | Product\_id = Column(Integer, Sequence('ab\_user\_id\_seq'), primary\_key=True) |
|  | Product\_name = Column(String(64), nullable=False) |
|  | Product\_price = Column(Integer), nullable=False) |
|  | Product\_Date = Column(DateTime) |
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|  | fail\_login\_count = Column(Integer) |
|  | roles = relationship('Role', secondary=assoc\_user\_role, backref='user') |
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| --- | --- | --- | --- | --- |
| Name | Type | required | Constraints | Key |
| Product\_id | int  unsigned | Yes |  | Primary |
| Product\_name | varchar(64) | Yes |  |  |
| Product\_price | int | Yes |  |  |
| Product\_Date | Date | yes |  |  |
| Movie\_id | int  unsigned | Yes |  | Foreign |
| Event\_id | int  unsigned | Yes |  | Foreign |
| advertising\_id | int  unsigned | Yes |  | Foreign |
| Cinema\_id | int  unsigned | Yes |  | Foreign |

Name: Event Done by: Kwok Ho Ming

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| --- |
| Class EventModel): |
|  | \_\_tablename\_\_ = 'ab\_user' |
|  | Event\_id = Column(Integer, Sequence('ab\_user\_id\_seq'), primary\_key=True) |
|  | Event\_Date = Column(DateTime), nullable=False) |
|  | Event\_name = Column(String(64), nullable=False) |
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| --- | --- | --- | --- | --- |
| Name | Type | required | Constraints | Key |
| Event\_id | int  unsigned | Yes |  | Primary |
| Event\_Date | date | Yes |  |  |
| Event\_name | varchar(64) | Yes |  |  |
| Cinema\_id | int  unsigned | Yes |  | Foreign |