MVC Architecture Pattern — Subway Screen Application

View Layer
- «View» SubwayScreenApp (Main Entry)
- «View» SubwayScreenGUI (Main Window)
- «View» MapPanel (Train Visualization)
- «View» StationInfoPanel (Train Status)
- «View» WeatherPanel (Weather Display)
- «View» NewsPanel (News Ticker)
- «View» AdvertisementPanel (Ad Display)

Controller Layer
- «Controller» StationController (Station Management)
- «Controller» ReadSimulatorOutput (Train Data Reader)
- «Controller» WeatherController (Weather API)
- «Controller» NewsController (News API)
- «Controller» AdvertisementController (Ad Management)
- «Controller» DataFetcherController (Base HTTP Client)

Model Layer
- «Model» SubwayLine
- «Model» Train
- «Model» Station

Utility Layer
- «Utility» DatabaseUtil (JDBC Wrapper)
- «Utility» SimulatorManager (Process Manager)
- «Utility» AppLogger (Logging System)
- «Utility» AppConstants (Configuration)

CSV Files
- Station Data (120 stations)
- Train Positions (Simulator)

External APIs
- Weather API (wttr.in)
- News API (TheNewsAPI)

MySQL Database
- advertisements table

Layer	Purpose
Model	Data models (Station, Train)
View	UI components (Swing panels)
Controller	Business logic & data flow
Utility	Infrastructure (logging, DB, config)

MVC Architecture Pattern
Clean separation of concerns

20+ Classes | 3000+ Lines of Code