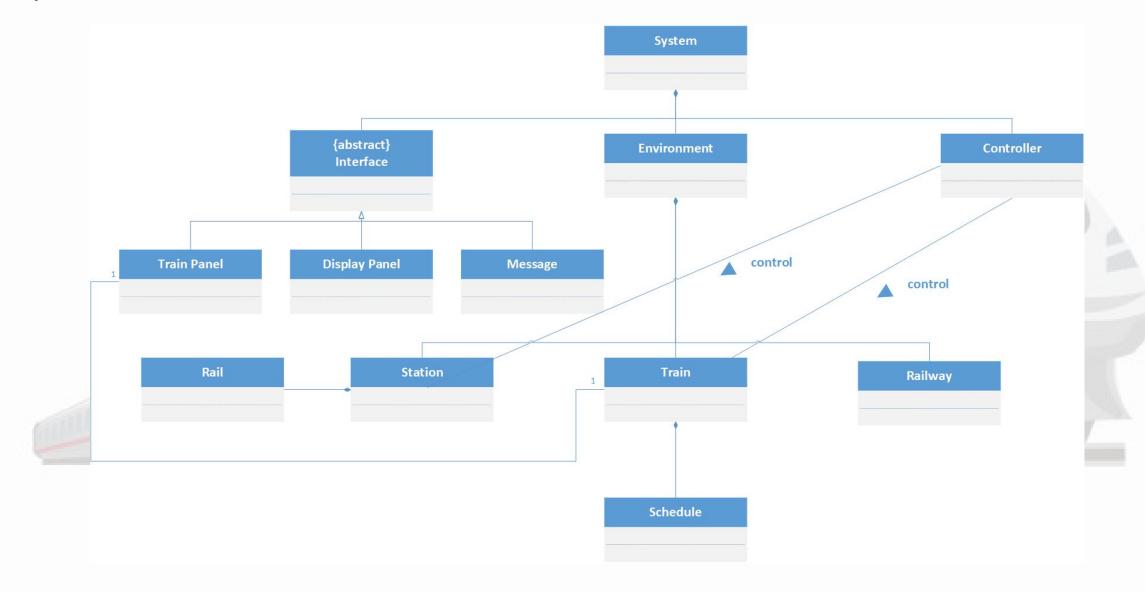
Railway Control System

Group 1 —— Project 3

R: Ziqi Gao D: Tiansu Chen V: Chenyang Zhang

System Architecture

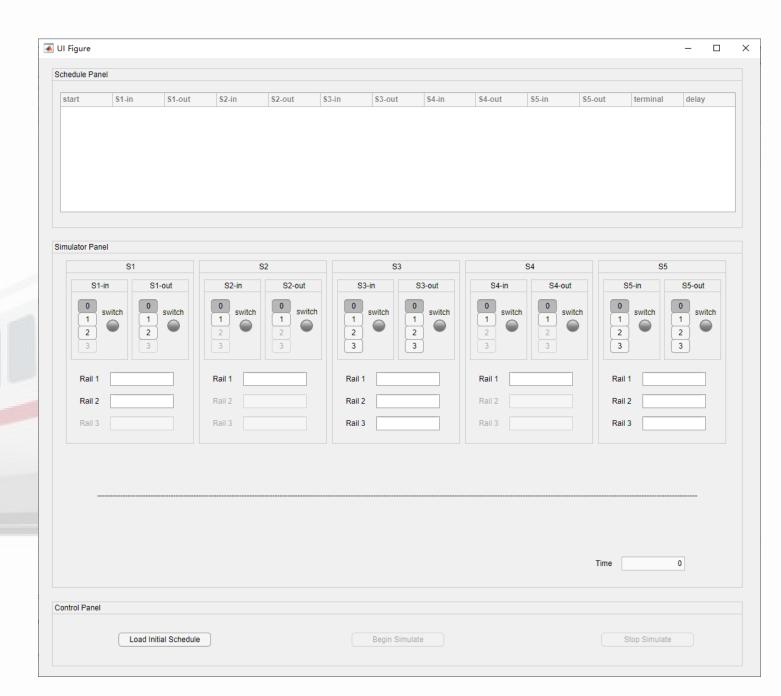


User Interface — Display Panel

>> System(test.txt)



- Schedule Panel
- Simulator Panel
- Control Panel
 - 'Load Initial Schedule' button

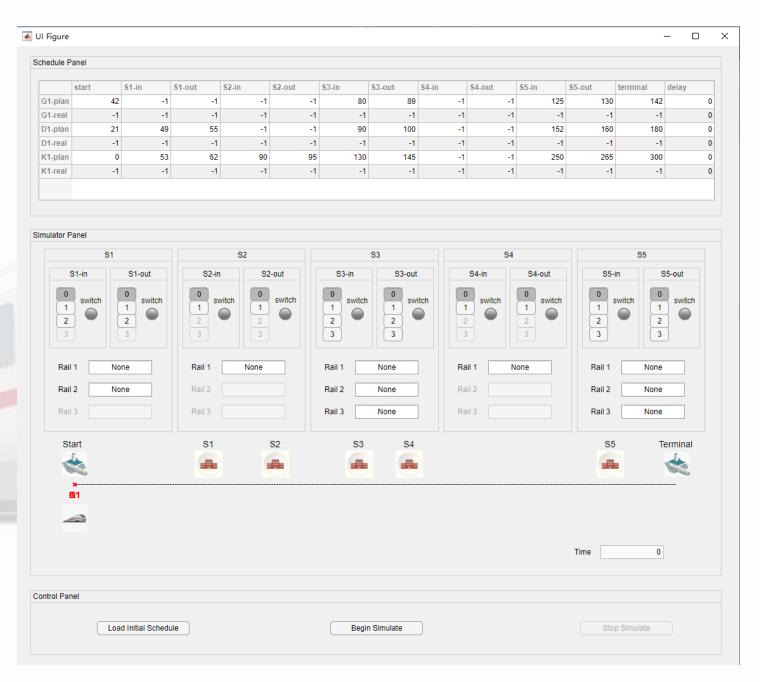


User Interface — Display Panel

- Schedule Panel
 - > Input schedule
 - > Real schedule
 - Cumulated delay

Real-time update

- Simulator Panel
 - > Station & Rail Info
 - > Train on the railway
- Control Panel
 - ➤ 'Begin Simulate' button
 - > 'Stop Simulate' button

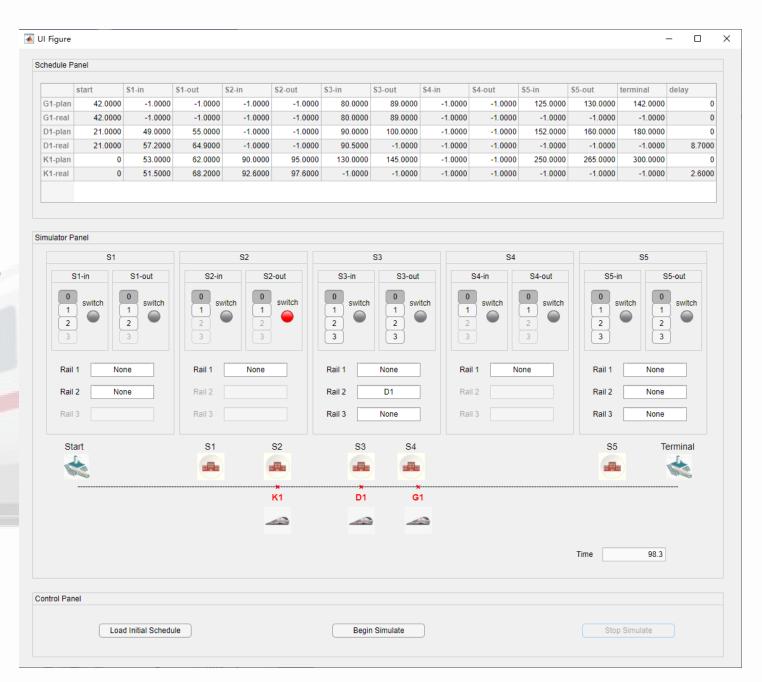


User Interface — Display Panel

- Schedule Panel
 - > Input schedule
 - > Real schedule
 - Cumulated delay

Real-time update

- Simulator Panel
 - Station & Rail Info (switch command)
 - Moving train along the railway
- Control Panel
 - > 'Begin Simulate' button
 - 'Stop Simulate' button



User Interface — Train Panel

- Train information
 - > Train ID, Standard speed
 - Next destination
 - Running state(state, location, acceleration, speed)
- Control Panel
 - > 'Stop at next station' button
 - > 'Accelerate to cruising speed' button
 - > 'Accelerate to maximum speed' button

