



Integrated Web App for Traffic Simulator

Team:

Phu Nguyen, Ryan Knight,
Alex Issing, Karan Shah,
Joey Desai

Multimedia, Hypertext, and Information Access - CS4624
Dr. Mohamed Farag, Virginia Tech, Blacksburg VA 24061

Outline

1) Motivation

2) Diagram

3) Features

4) Demo

5) Timeline

6) Future Ideas

7) Acknowledgements and References

Motivation

Traffic Simulation Management System

- File Validation
- File Creation
- Poor UI
- Run History

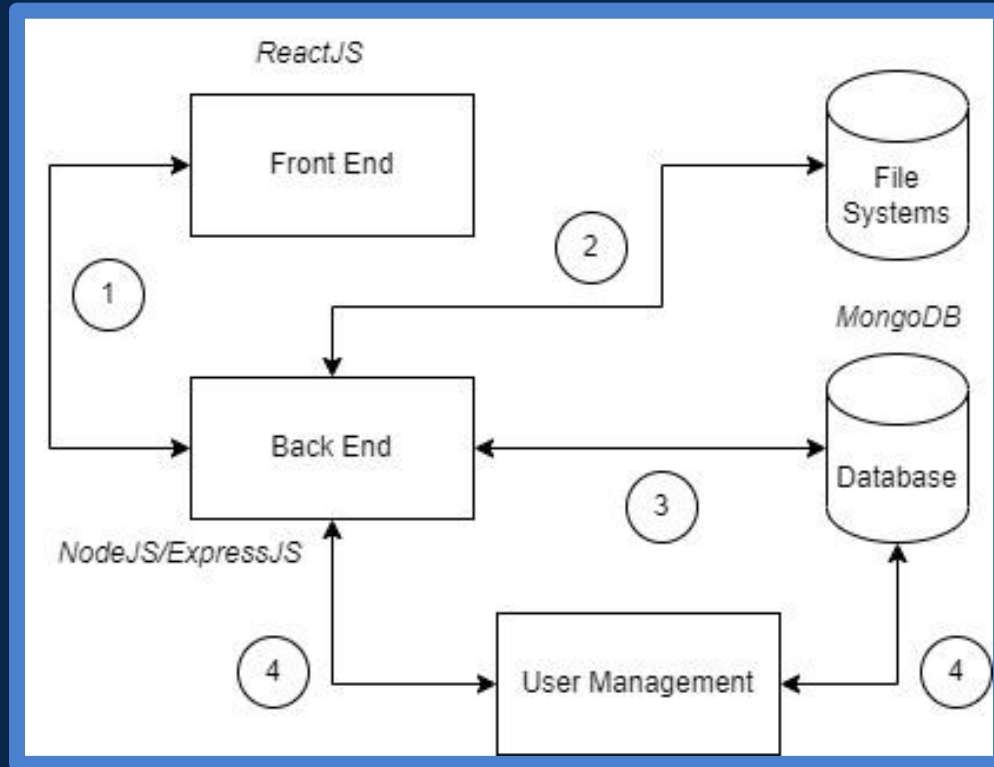
Traffic Simulator Input/Output GUI

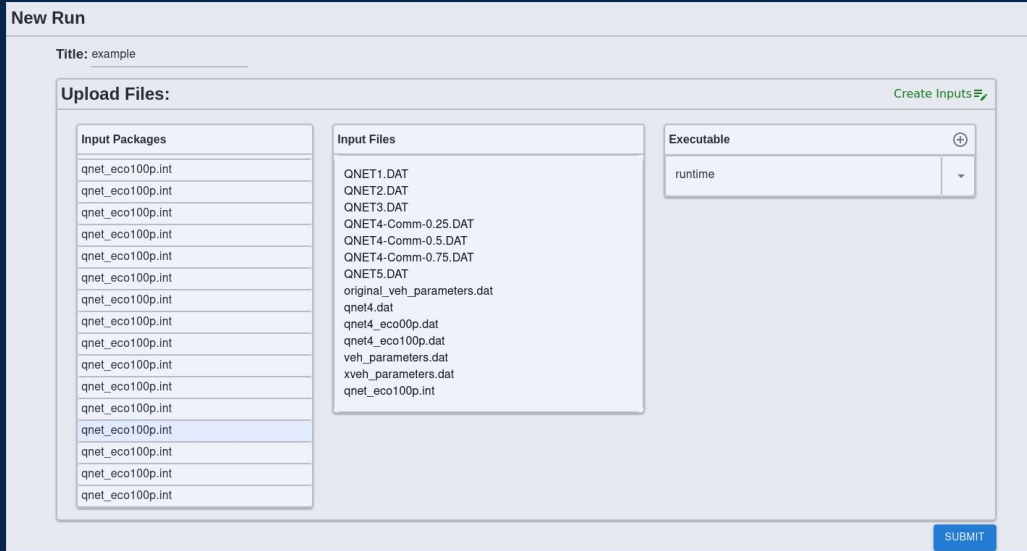
- Login System
- File Downloads
- Run Results

Integrate Web Application for Traffic Simulator

- Combines Both Systems
- Package History
- New UI

Our Architecture Diagram





Integrated Features

Account System

Create Input Packages

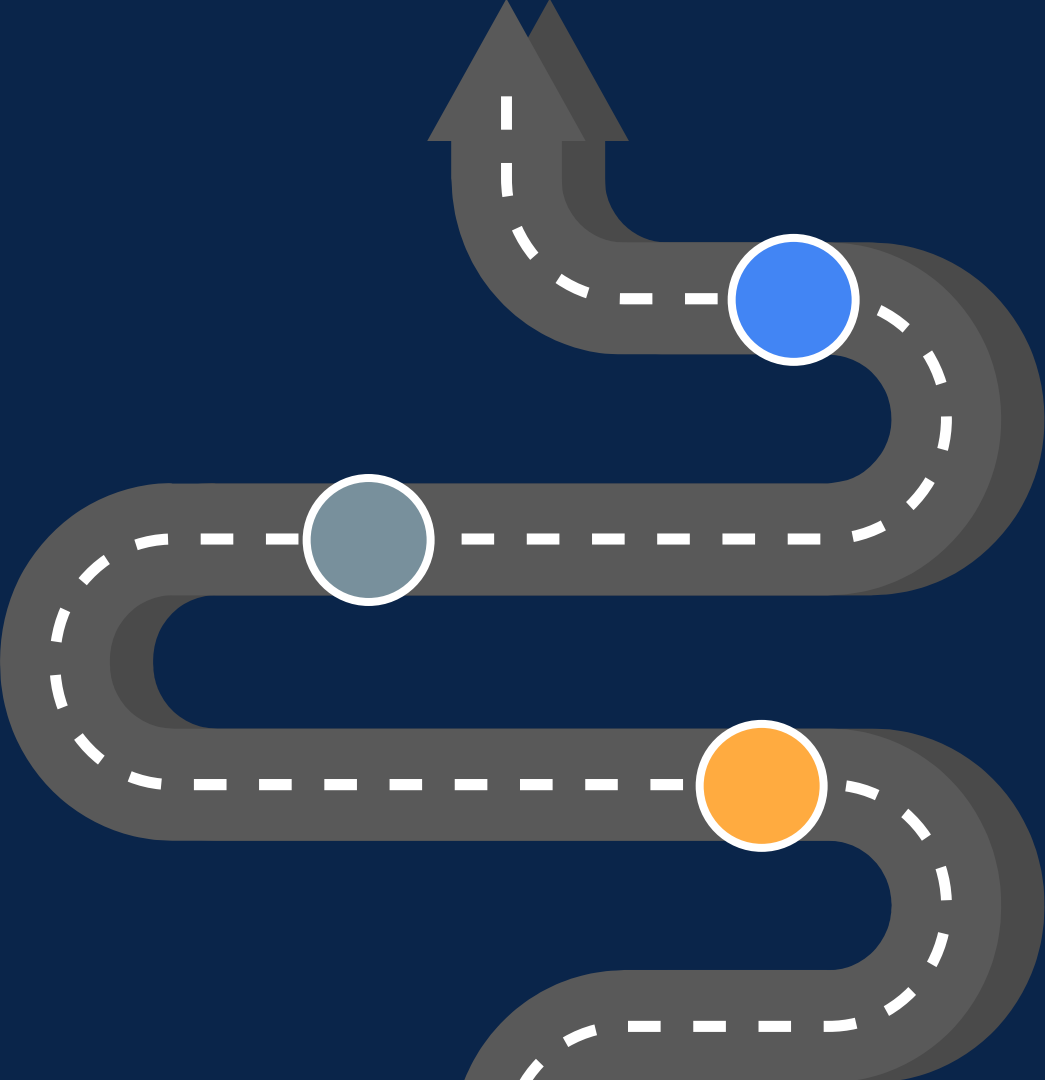
Run Creation via Validated Packages

Run Management

Run Outputs

Set Default EXE





DEMO

Timeline



1/20: Choose Project
1/30: Assign Roles

2/5: Meet with client
2/10: Read Previous
Project Reports
2/23: API Selection

3/1: Frontend basics
3/15: Presentation 2
3/25: Interim Report
Complete

4/1: Finish File Storage
4/21: Project Finalized
4/28: Final Report

5/1: Ensure everything is
submitted



JAN



FEB



MAR



APR



MAY

Future Ideas

Custom Package Names



1

Save in DB

Run Search bar



2

Search through
created runs

Dockerization



3

Consistent building

Port Manipulation



4

Variability

Acknowledgements



Dr. Farag

Professor, client, and one of the
smartest people we know



TS Management System Team

Nathan Borghese, Sara
Grammer, April Monk,
and Jack Thomas



TS Input/Output Team

Emmanuel Aninye, John
Beutner, James DeLoach,
Kieran Siek, and Dhruvil Shah

References

Slide Theme:

<https://slidesgo.com/theme/product-roadmap-infographics#search-road+map&position-3&results-8&rs=search>

Images:

https://www.vtti.vt.edu/staffdir/headshots/Faraq_Mohamed.jpg