

FRONTEND UI  
src/frontend

admin-frontend

- Create events
- Modify Events
- Delete Events
- View their events
- View analytics for thier events
- QR code validator
- Edit organizer profile

student-frontend

- Browse all events using filers
- Buy tickets
- View their personal calendar
- Edit their student profile

organizer-frontend

- Approve organizer accounts
- Approve events
- View all organizer information
- View all student information
- Approve student organizations



BACKEND (Flask)  
src/backend

app.py

- create Flask app
- init SQLAlchemy
- register routes

routes package

user\_roues.py

events\_routes.py

ticket\_routes.py

organization\_routes.py

organization\_members\_routes.py

CRUD Layer

crud\_users

crud\_events

crud\_ticket

crud\_orgs

SQLAchemy Models

- Users
- Event
- Ticket
- Organization
- Organization Member



Database

- users
- events
- tickets
- organization
- org\_member