

Tour Visualizer

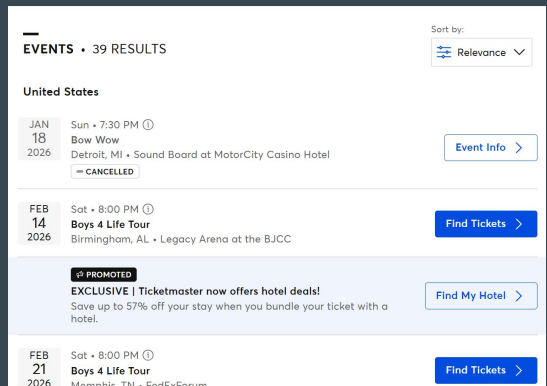


Interactive 3D Artist Exploration

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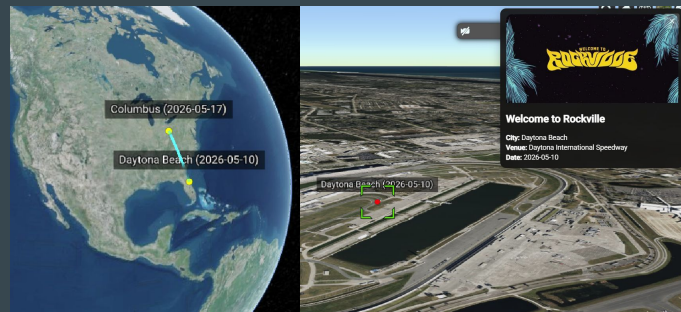
Problem

- Wanted a way to view an artist tour on a globe
- Existing tools show lists, not interactive environments



Solution

- A globe based interface
 - Search artist
 - View tour stops
 - Explore Event info
 - See travel patterns



FrontEnd

- AngularJS (Angular 20)
 - Widget component (search & suggestions)
 - Cesium component (display & interaction)
- CesiumJS

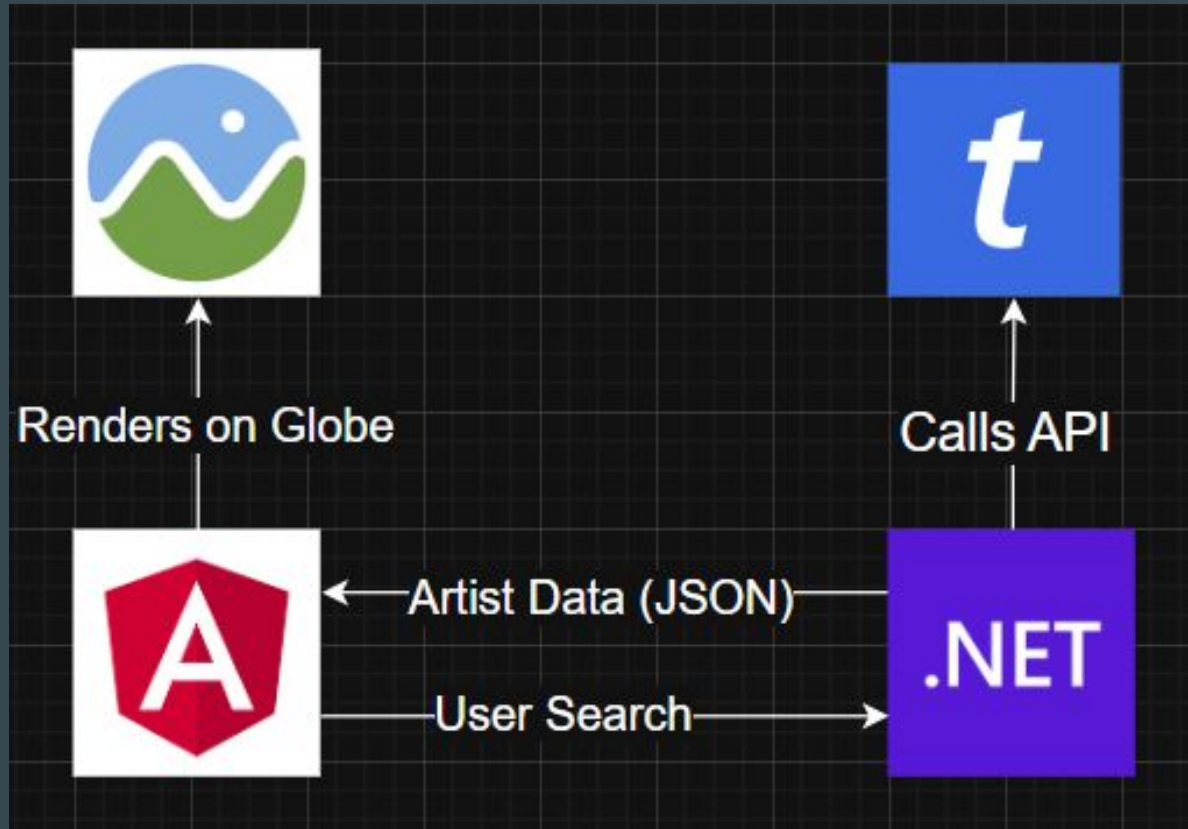


Backend

- .NET (.NET 8 Web API)
 - /api/events (artist search)
- .NET backend proxies Ticketmaster

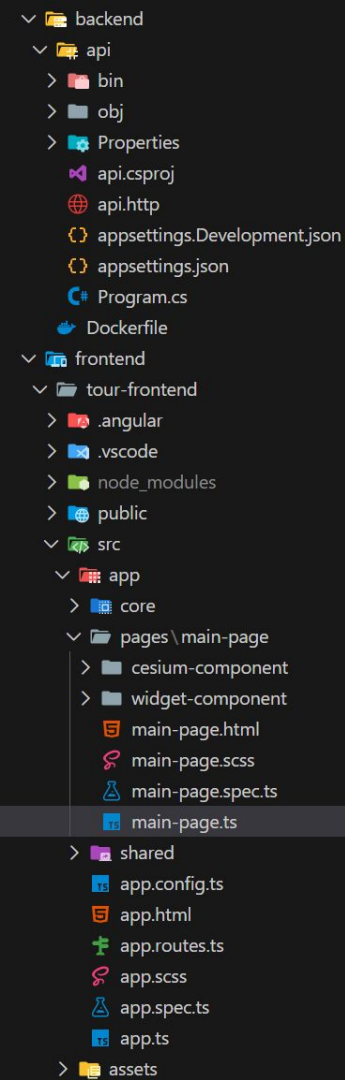


Architecture Diagram



Technical Highlights

- Debounced search (no wasted calls)
- .NET backend handles CORS + API proxying
- Clean component structure (Angular 20)
- Efficient map primitive cleanup when swapping between artists
- Custom Cesium material for animated arcs



Future Improvements



- Connect to ticketmaster ticket purchasing
- Heatmaps or analytics of tour density
- Comparing multiple artists and comparing past tours of same artist.
- Filter by mile range
- Containerizing with Docker
- Web hosting with AWS