

CAMPS

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“Design for speed!”

Customer Requests

- Design for speed
 - Store the graph in memory to decrease response time
 - Find which search algorithm is faster and use it (Dijkstra or A*)

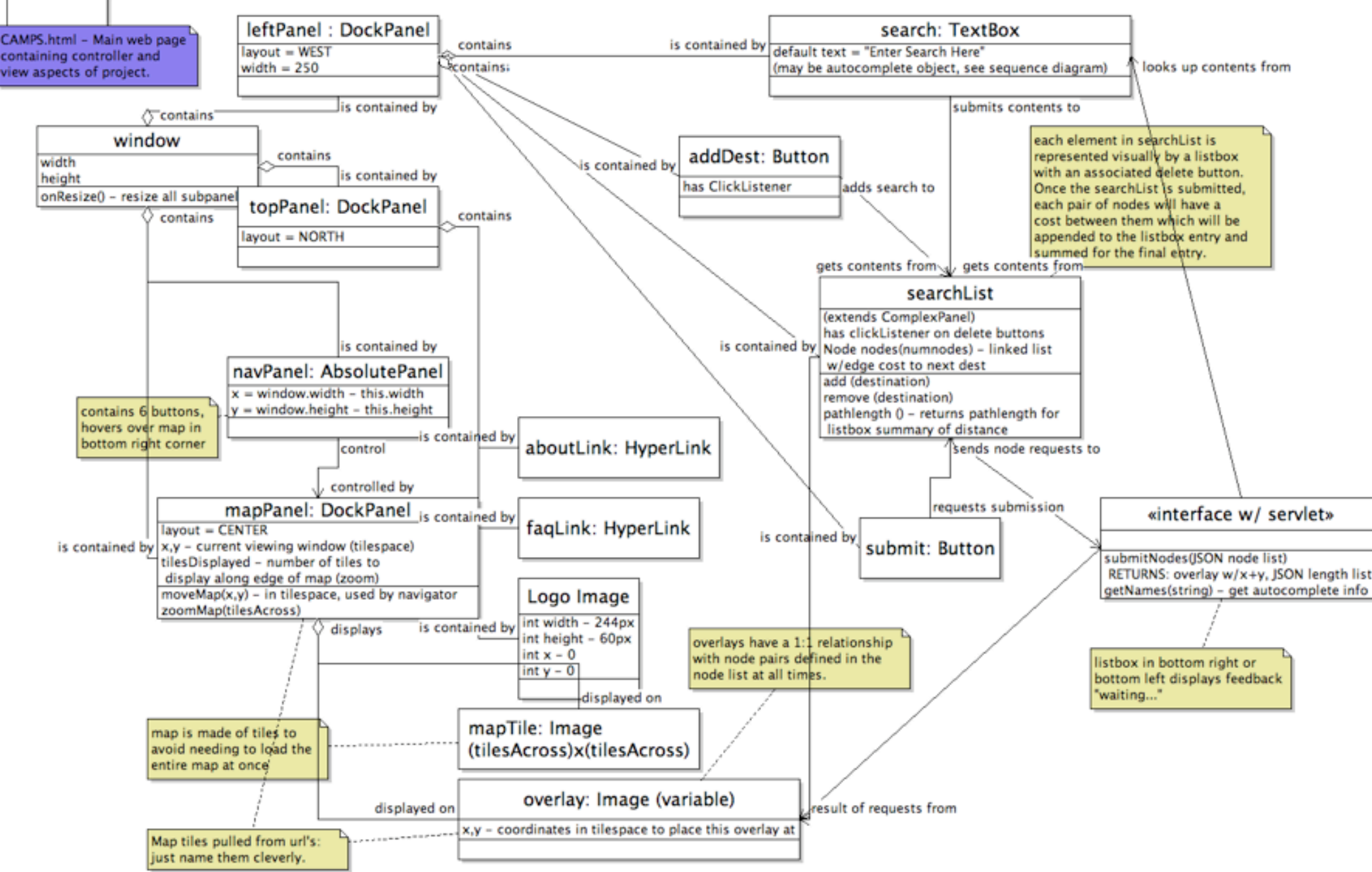
Zero Feature Release

- Prototype Database up and running with small data set for testing
 - Data will consist of a small test set of nodes, buildings, and edges
 - Data will not include path type or transportation method
- Map image segments rendered and spliced up for retrieval by UI
- Servlet is running on Tomcat platform:
 - Can accept incoming JSON requests and decrypt into internal data structure for analysis
- Partially-developed UI:
 - Search Box allows building a list of destinations
 - Submit button formats node list using JSON and queries servlet
 - Map loads intelligently (i.e. entire 8mb thing doesn't all load on start)
 - Panning is supported (not necessarily zooming)
 - UI is browser-safe and robust: support resizing, etc.
 - Links to primitive (possibly empty) faq and about
 - Style sheets developed and general site look and feel determined

Full Feature Release

- UI will draw multi-destination routes, where the paths between different destinations will appear in different colors.
- Can handle different path types and transportation types. The UI will allow the choosing of a transportation type (i.e. walk, bike)
- Algorithm will distinguish between different types of nodes (buildings, doors, normal) and will choose routes based on cost.
 - Quick Route Search
 - Lowest Cost Route Search
- Data will be more complete, more nodes, all paths.
- Fully customizable destination list with autocomplete (intelligently suggesting).
- Full support for zooming and panning by tiles.
- Mature, consistent looking interface.

CAMPS.html
 CAMPS.html - Main web page containing controller and view aspects of project.



contains 6 buttons, hovers over map in bottom right corner

each element in searchList is represented visually by a listbox with an associated delete button. Once the searchList is submitted, each pair of nodes will have a cost between them which will be appended to the listbox entry and summed for the final entry.

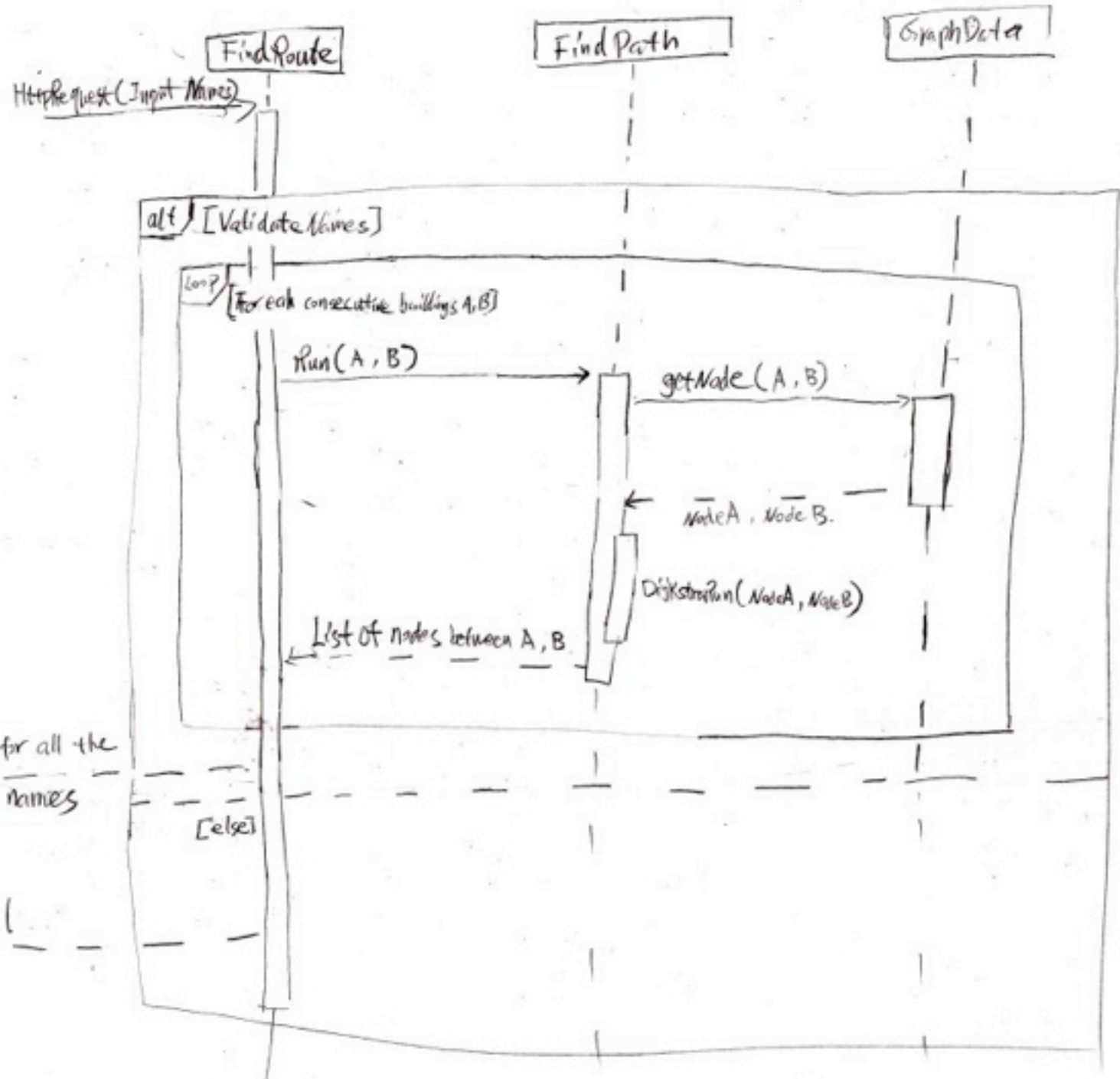
overlays have a 1:1 relationship with node pairs defined in the node list at all times.

map is made of tiles to avoid needing to load the entire map at once

Map tiles pulled from url's: just name them cleverly.

listbox in bottom right or bottom left displays feedback "waiting..."

This is a sequence diagram for server side control flow when a user send a Httprequest for finding routes for multiple buildings.



Routes for all the Input names

Null