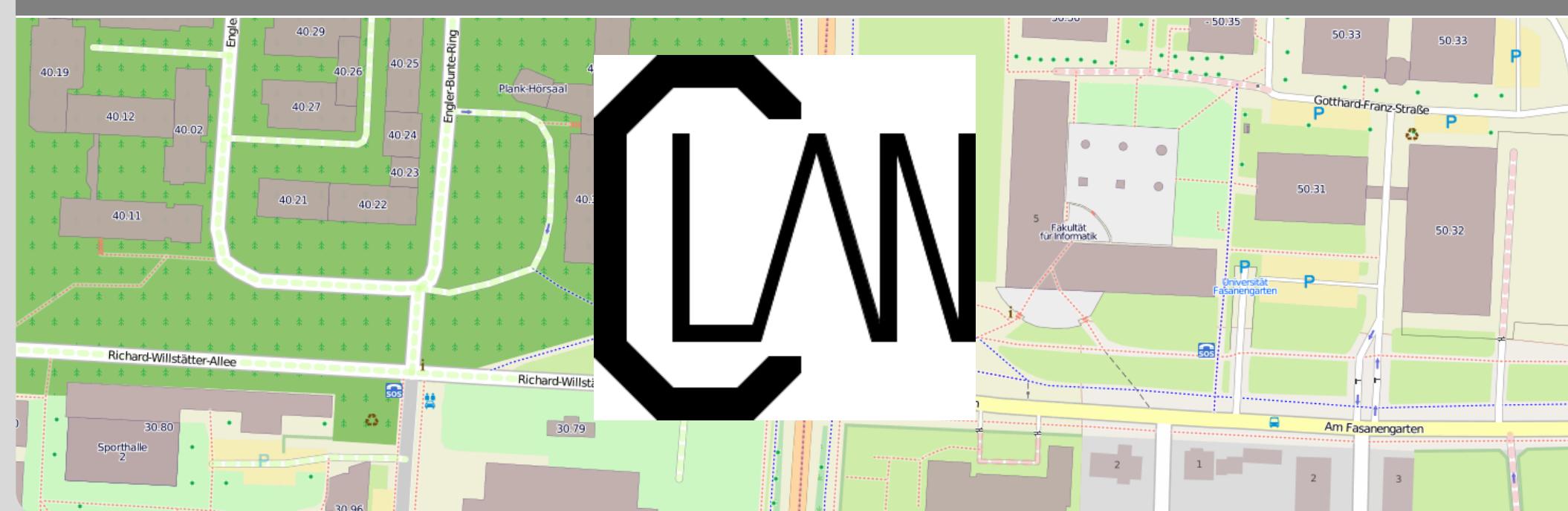


# CLAN (Campus Location and Navigation) Functional Specifications Document

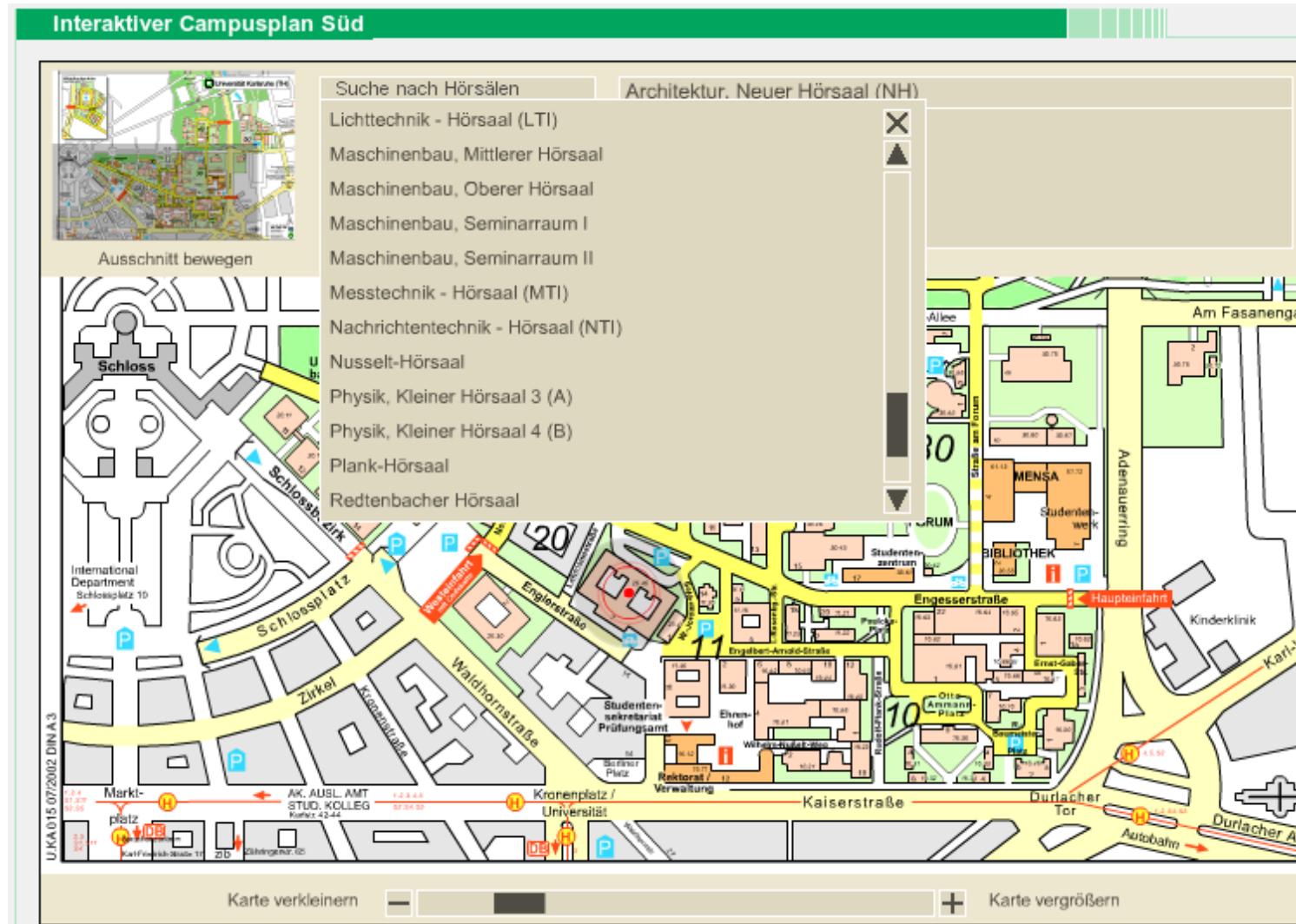
Praxis der Softwareentwicklung · May 23, 2013

Vincent Diener, Kenan Ibrahimov, Sebastian Friebe, Sarah Lutteropp, Melanie Magin, Kris Reiling

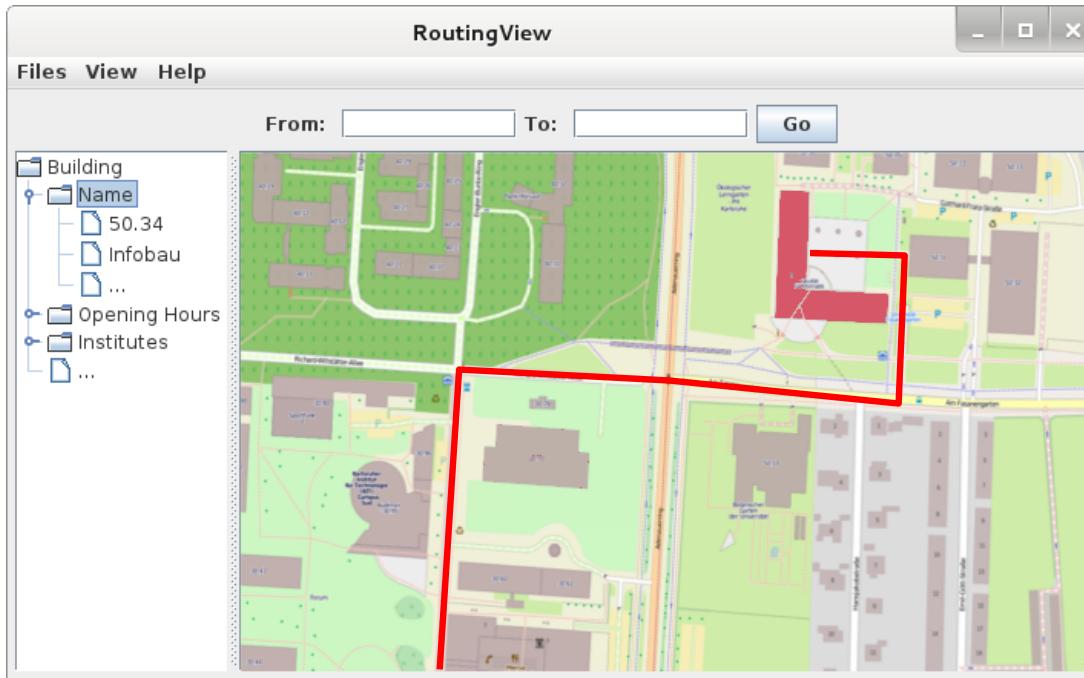
INSTITUTE OF THEORETICAL INFORMATICS · PROF. DR. DOROTHEA WAGNER



# Introduction

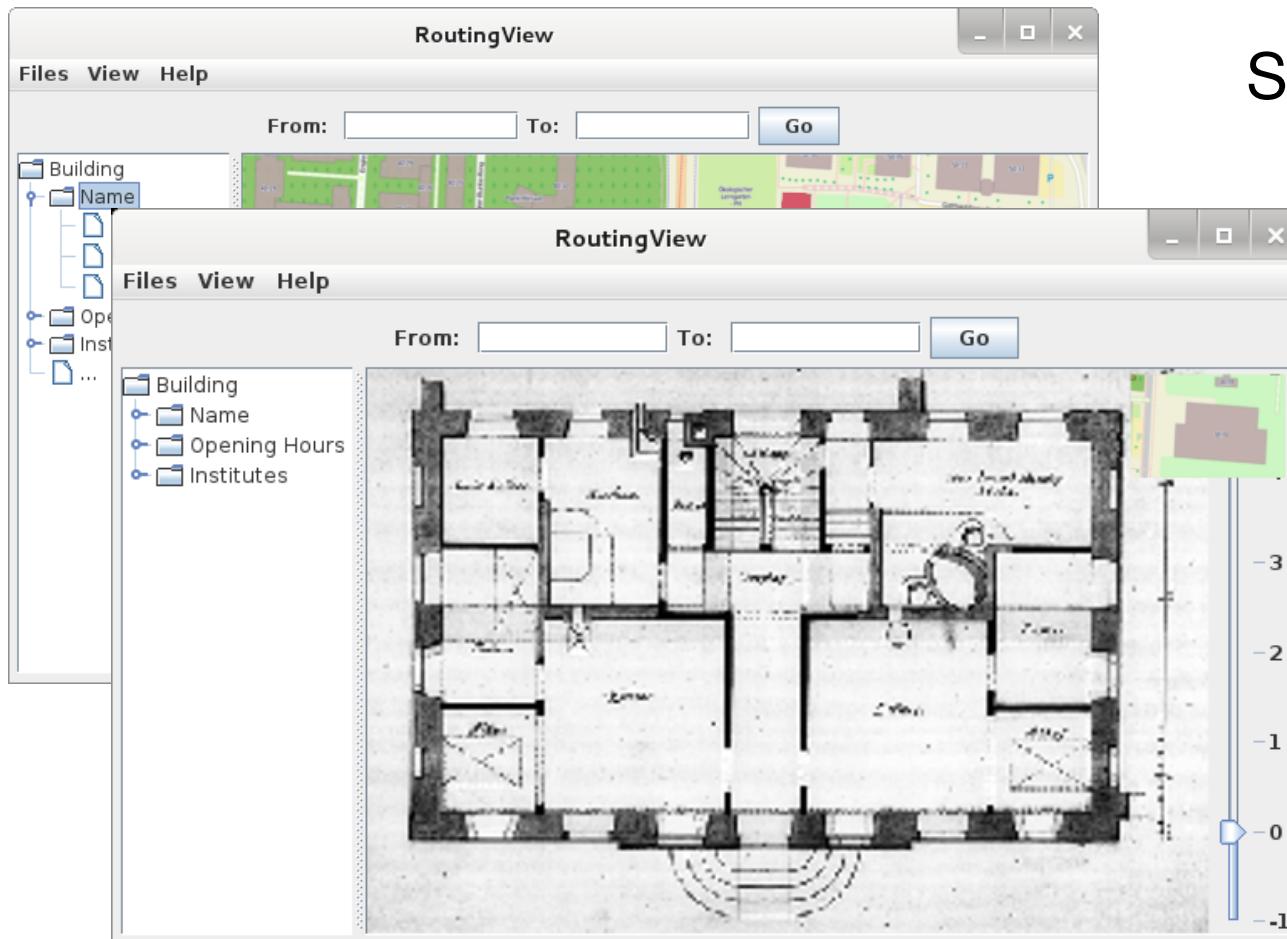


# With CLAN you can...



## Searching & Routing

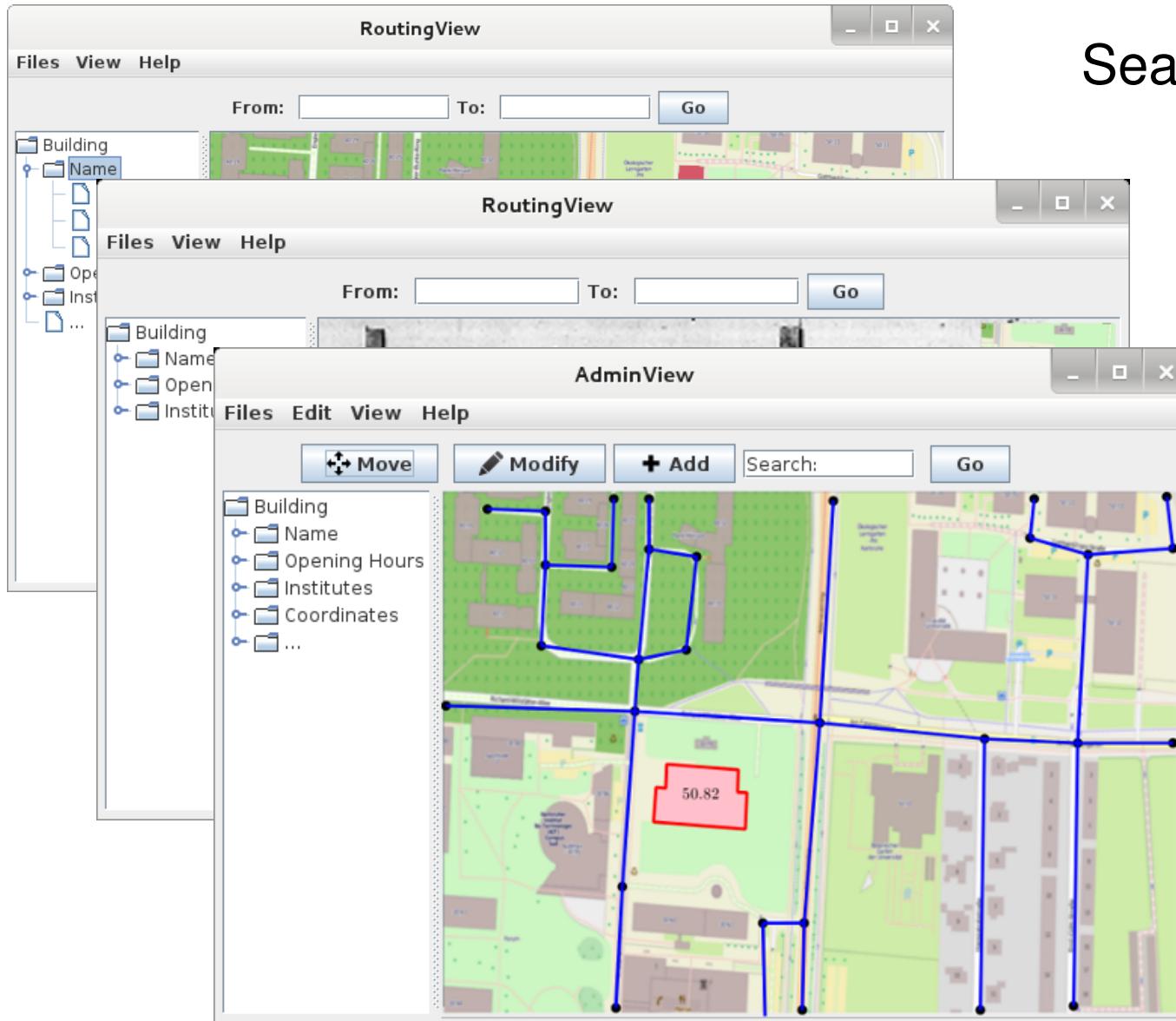
# With CLAN you can...



## Searching & Routing

## Interior Maps

# With CLAN you can...



## Searching & Routing

## Interior Maps

## Administration Tool

# Mandatory Criteria

# This is Jonas Schneider

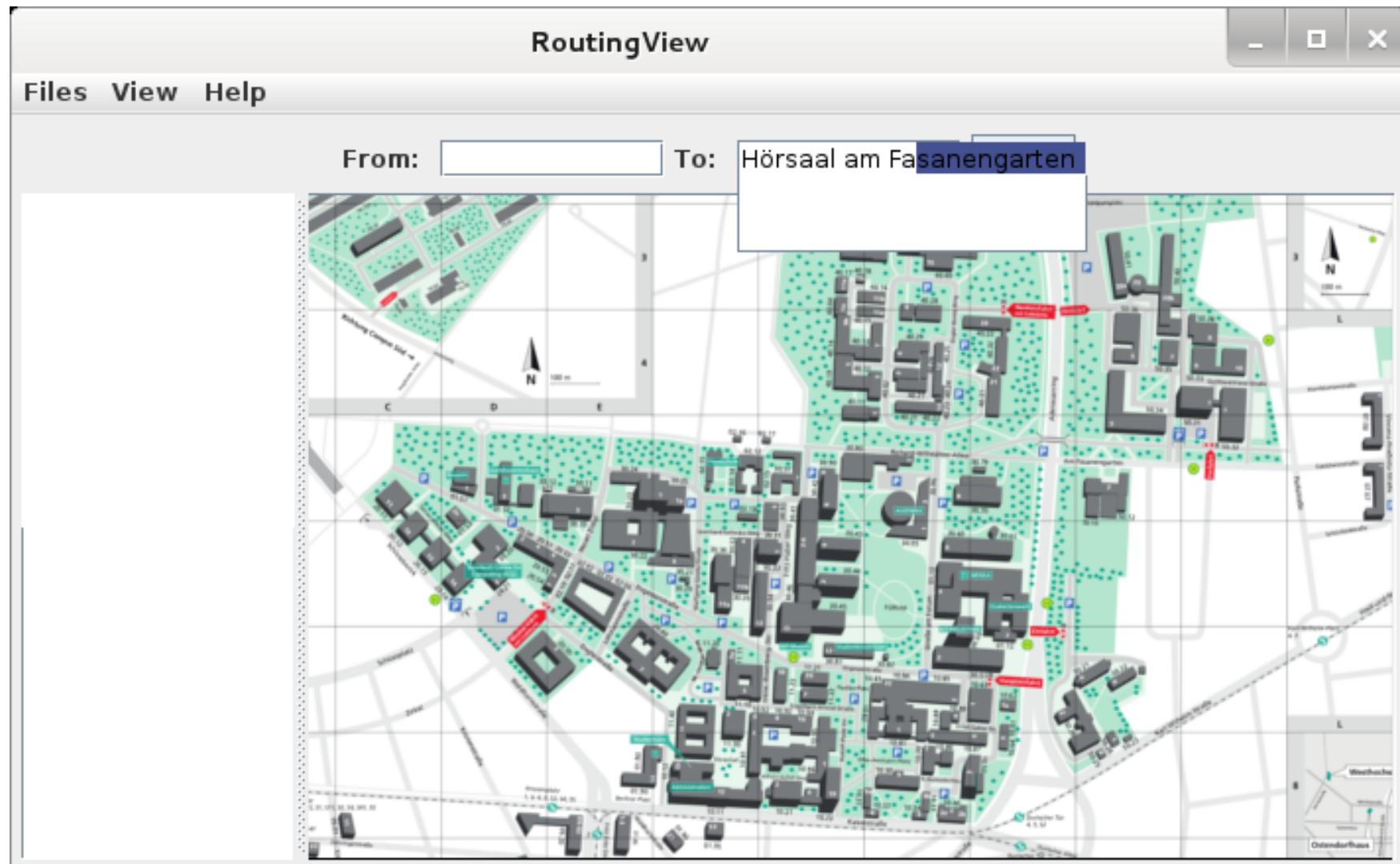


# Routing Scenario



Show Campus Map

# Routing Scenario



Search Field Input, Find Search Suggestions

# Routing Scenario



Search Location

# Routing Scenario



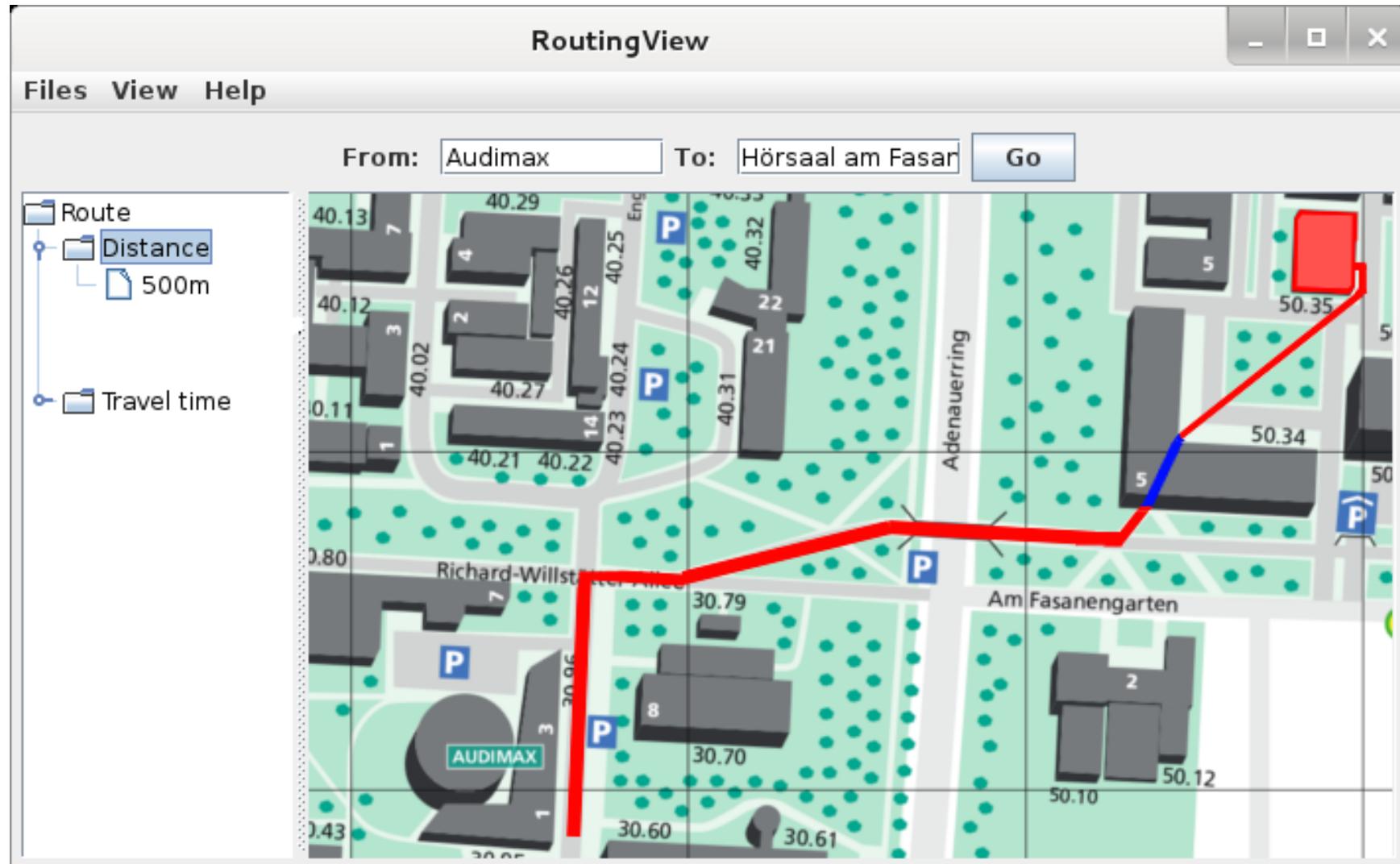
Select Point

# Routing Scenario



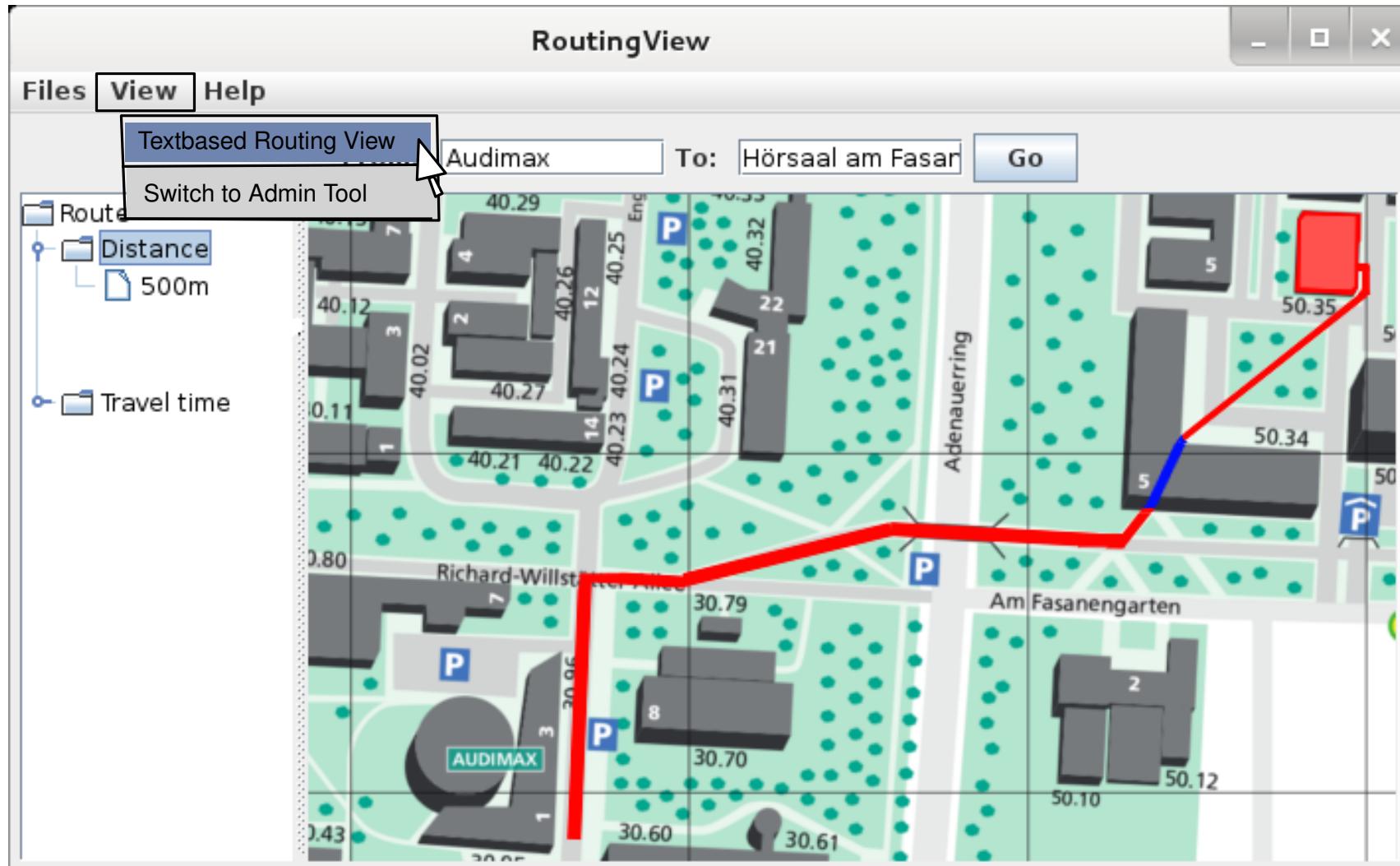
Compute Route, Show Route

# Routing Scenario



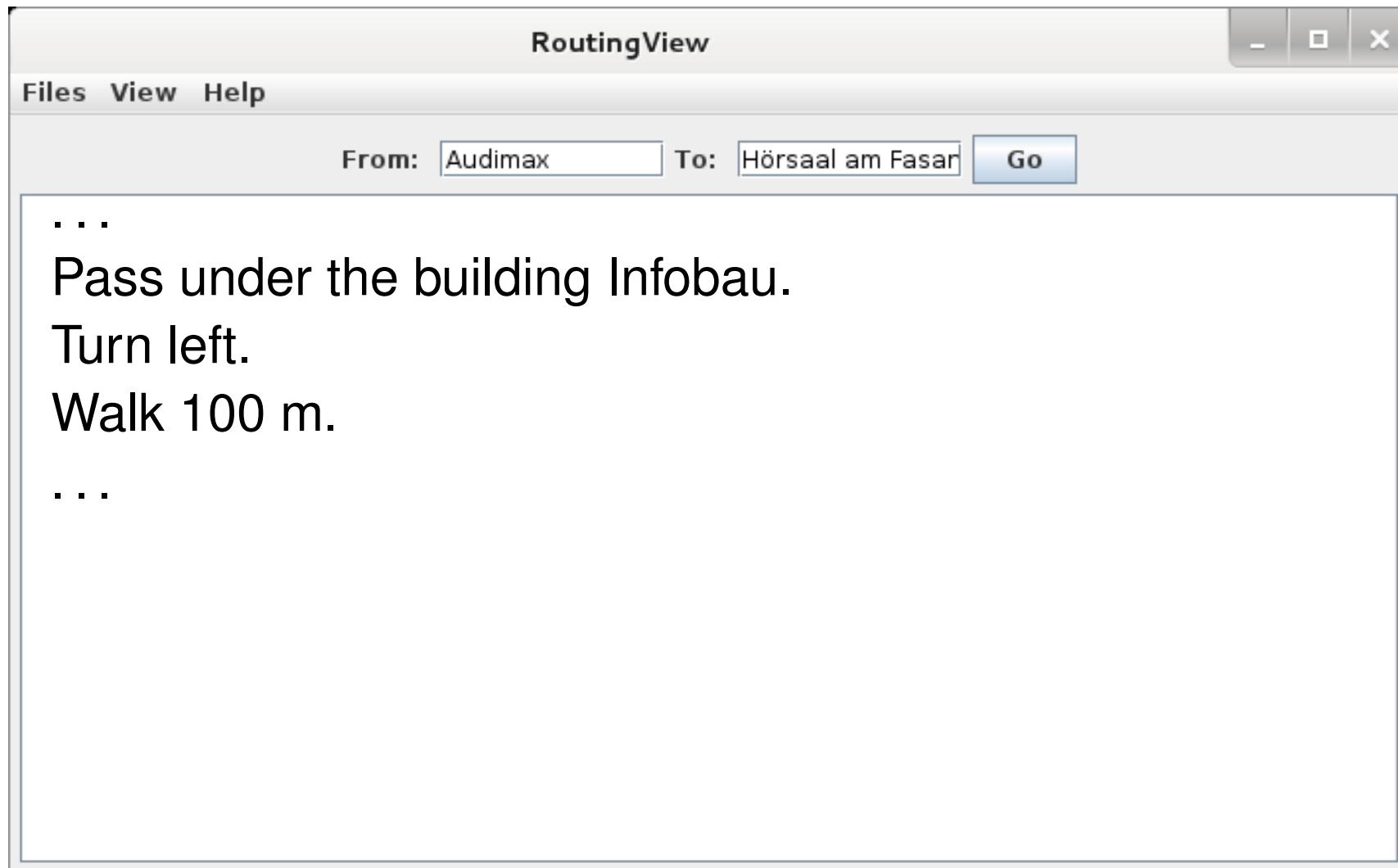
Zoom, Pan, Show Way under Building

# Routing Scenario



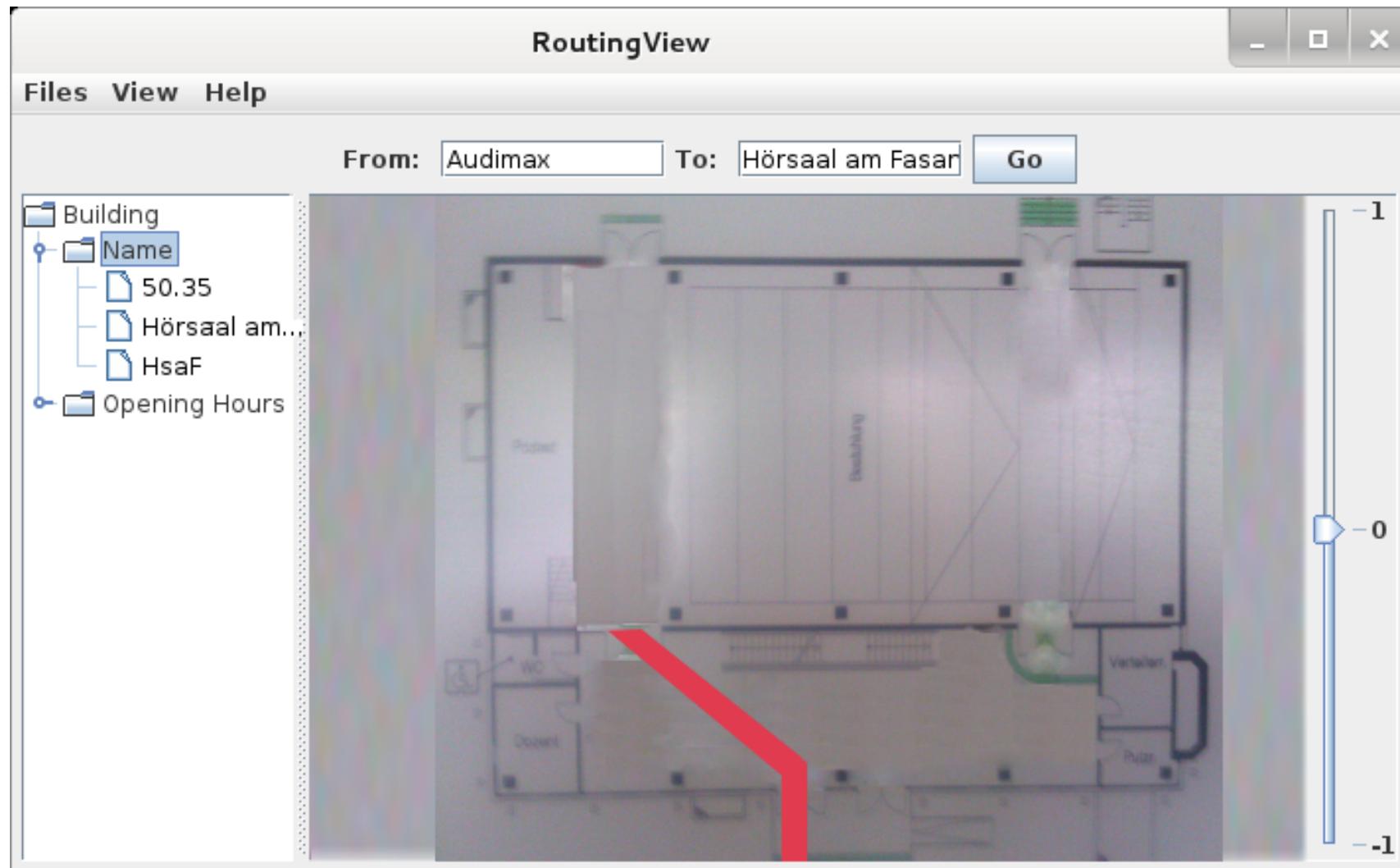
Select Textbased Routing View

# Routing Scenario



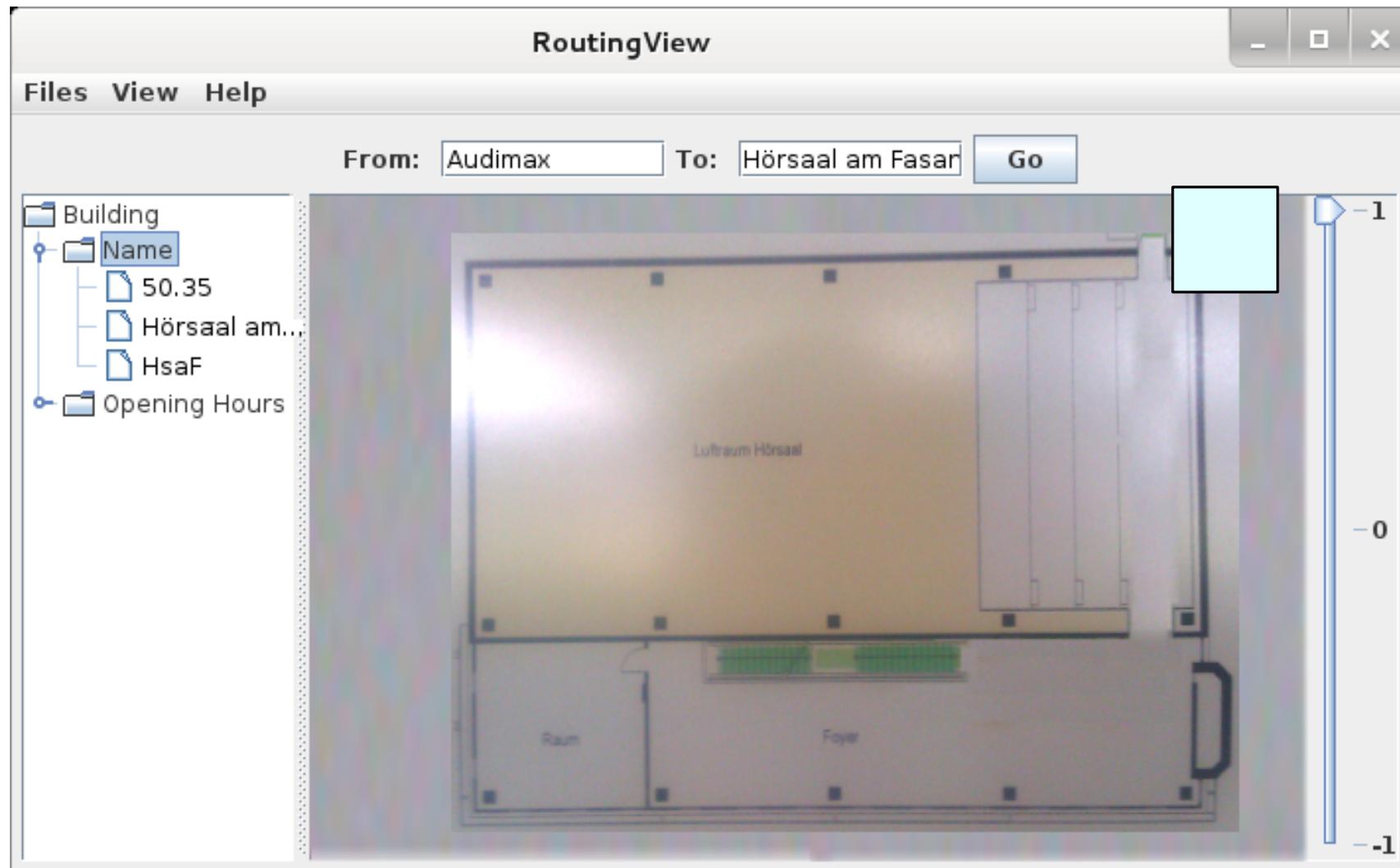
## Output Textbased Description

# Routing Scenario



Enter Building, Show Floor Plan Map

# Routing Scenario

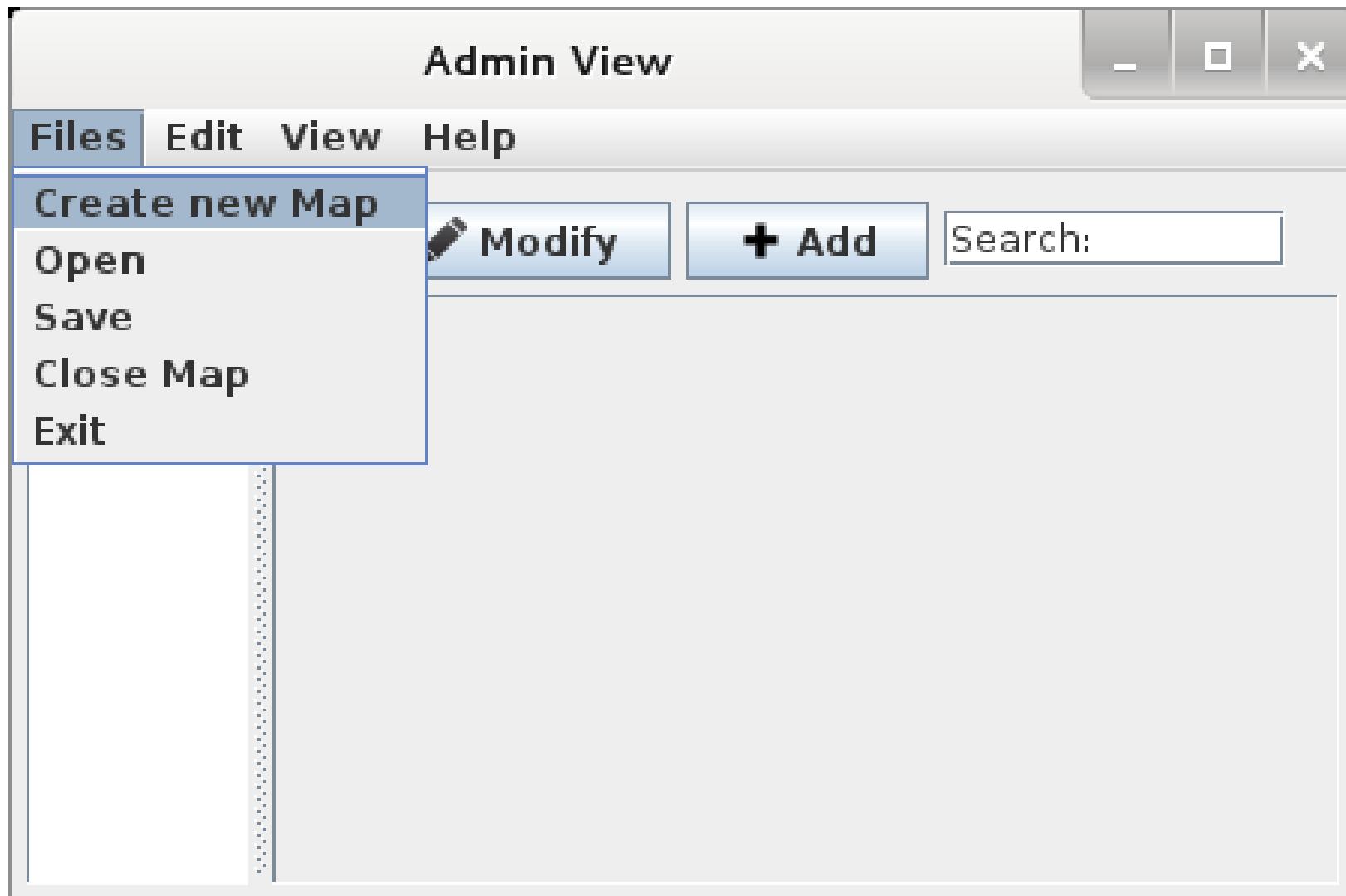


Switch Floor Plan Map inside a Building, Leave Building

# This is Andrew Ryan

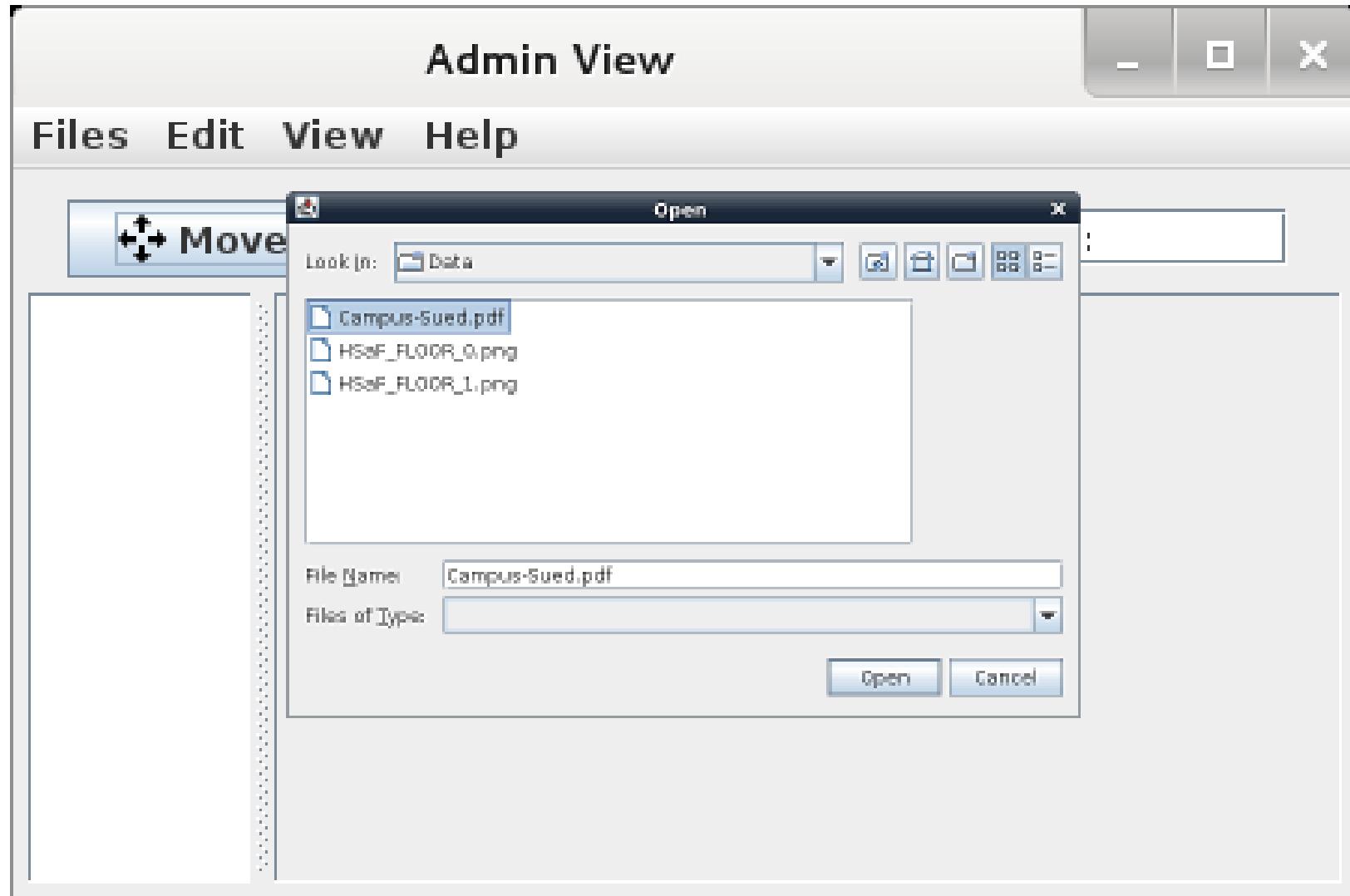


# Admin Tool Scenario



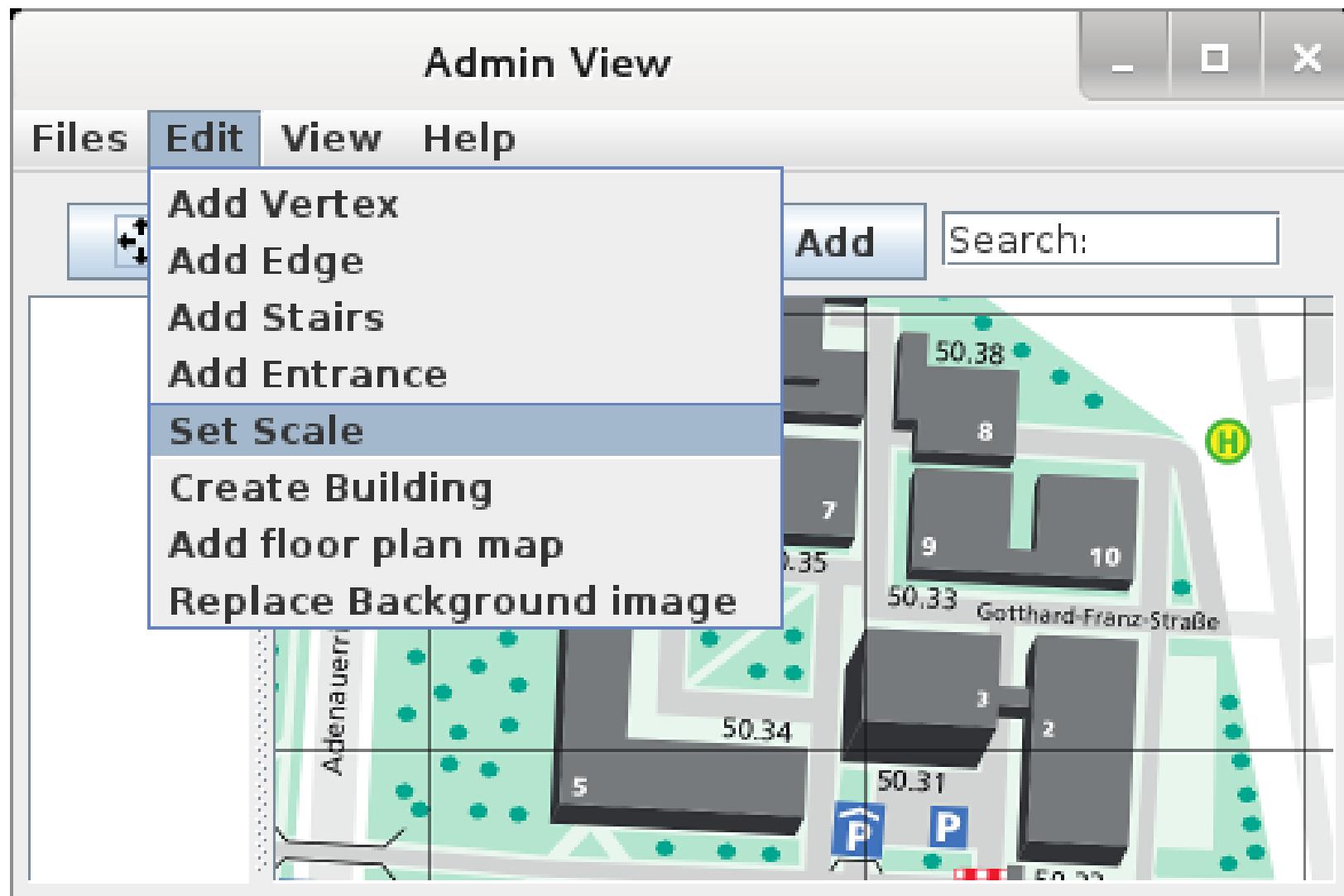
## Create new Map

# Admin Tool Scenario



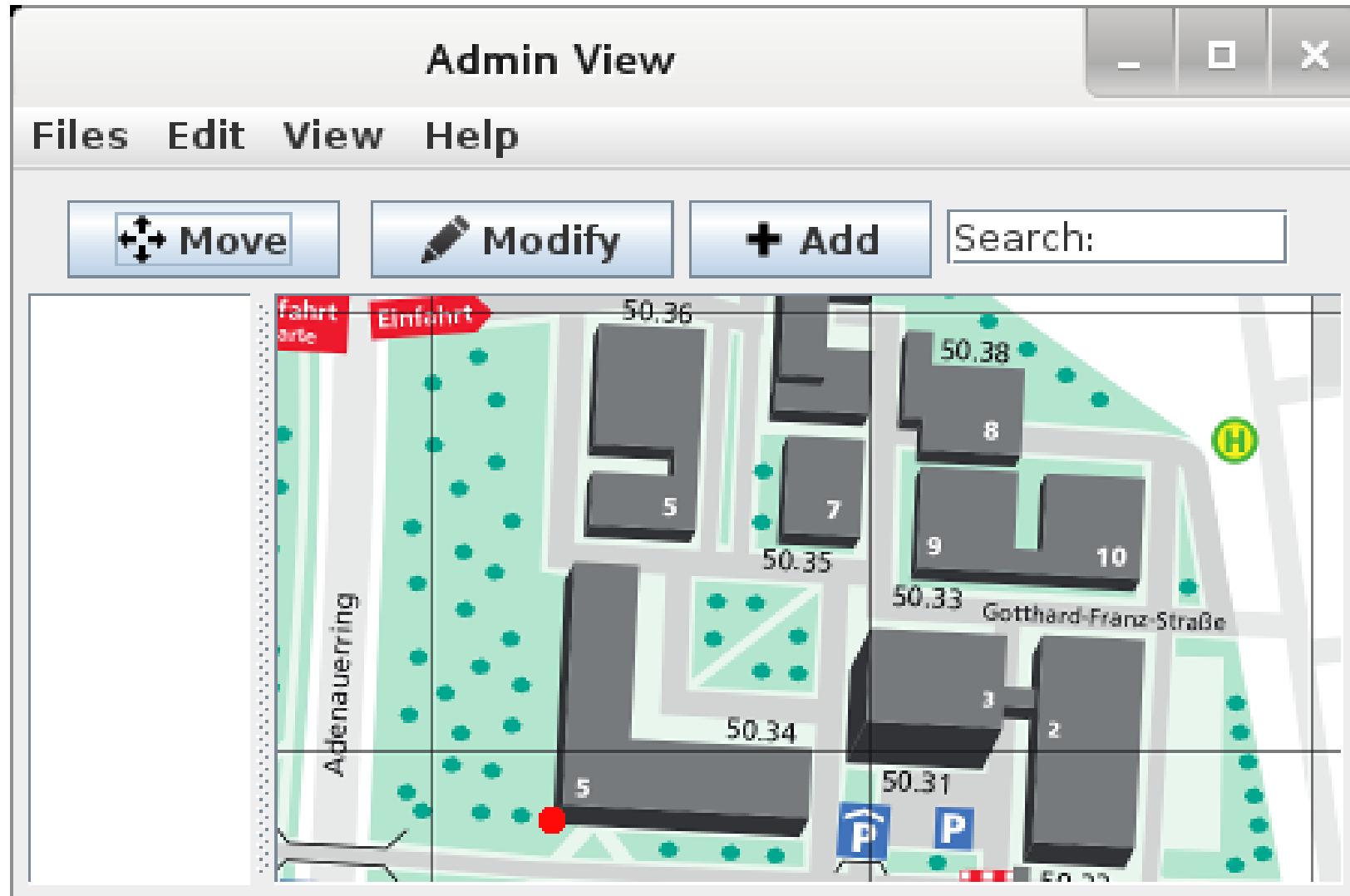
Select Background Image

# Admin Tool Scenario



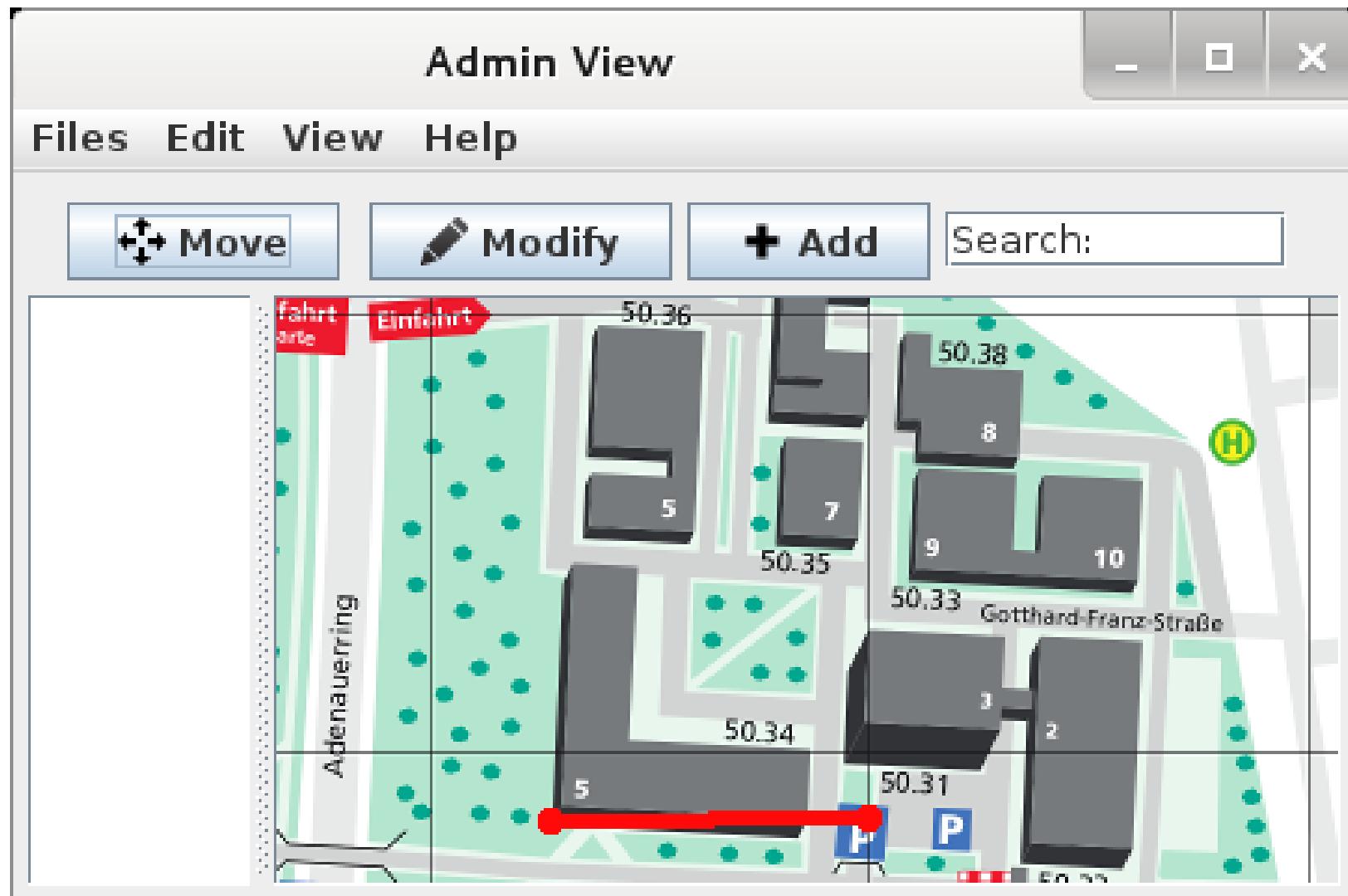
Set Scale

# Admin Tool Scenario



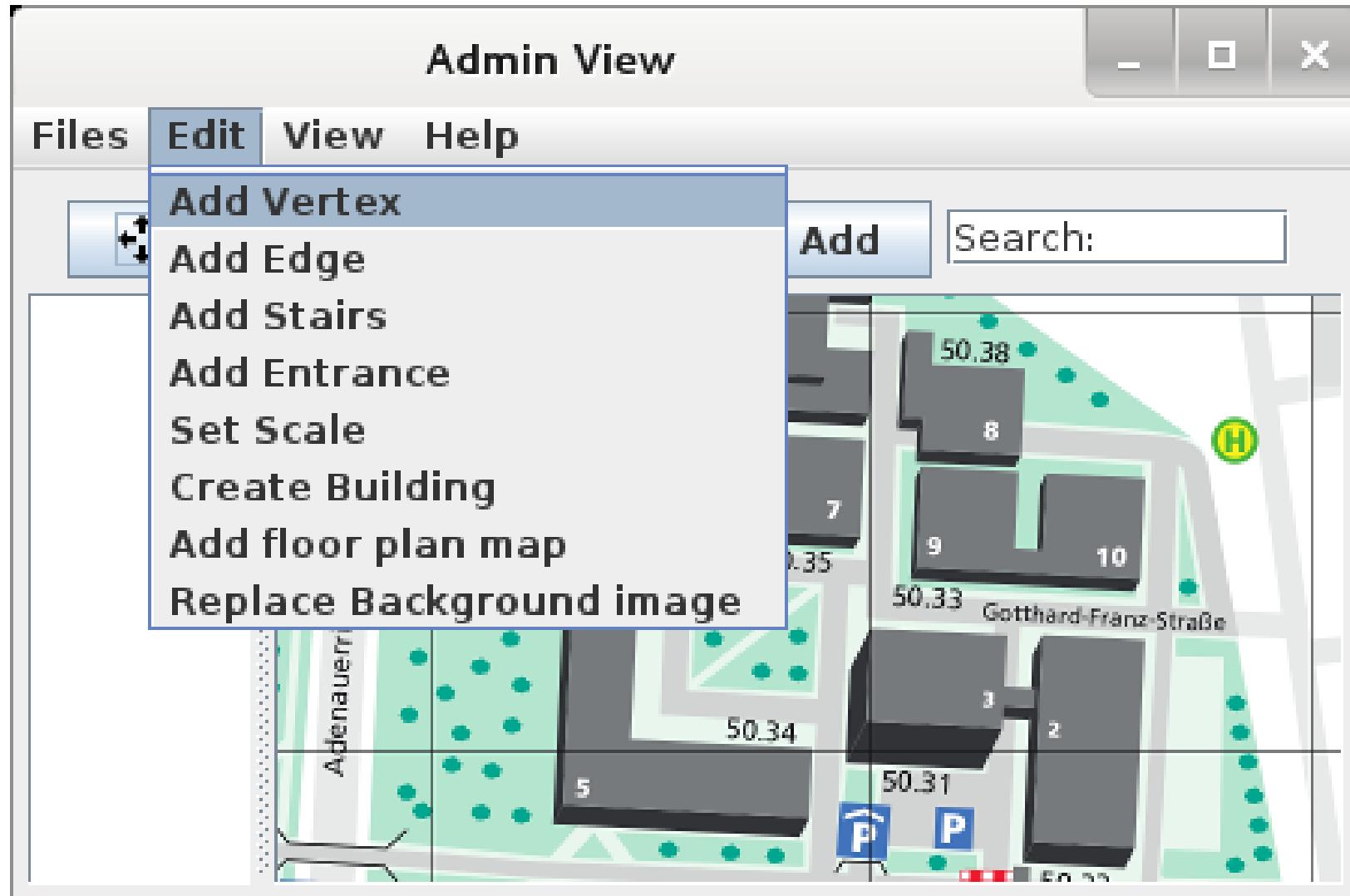
Set Scale

# Admin Tool Scenario



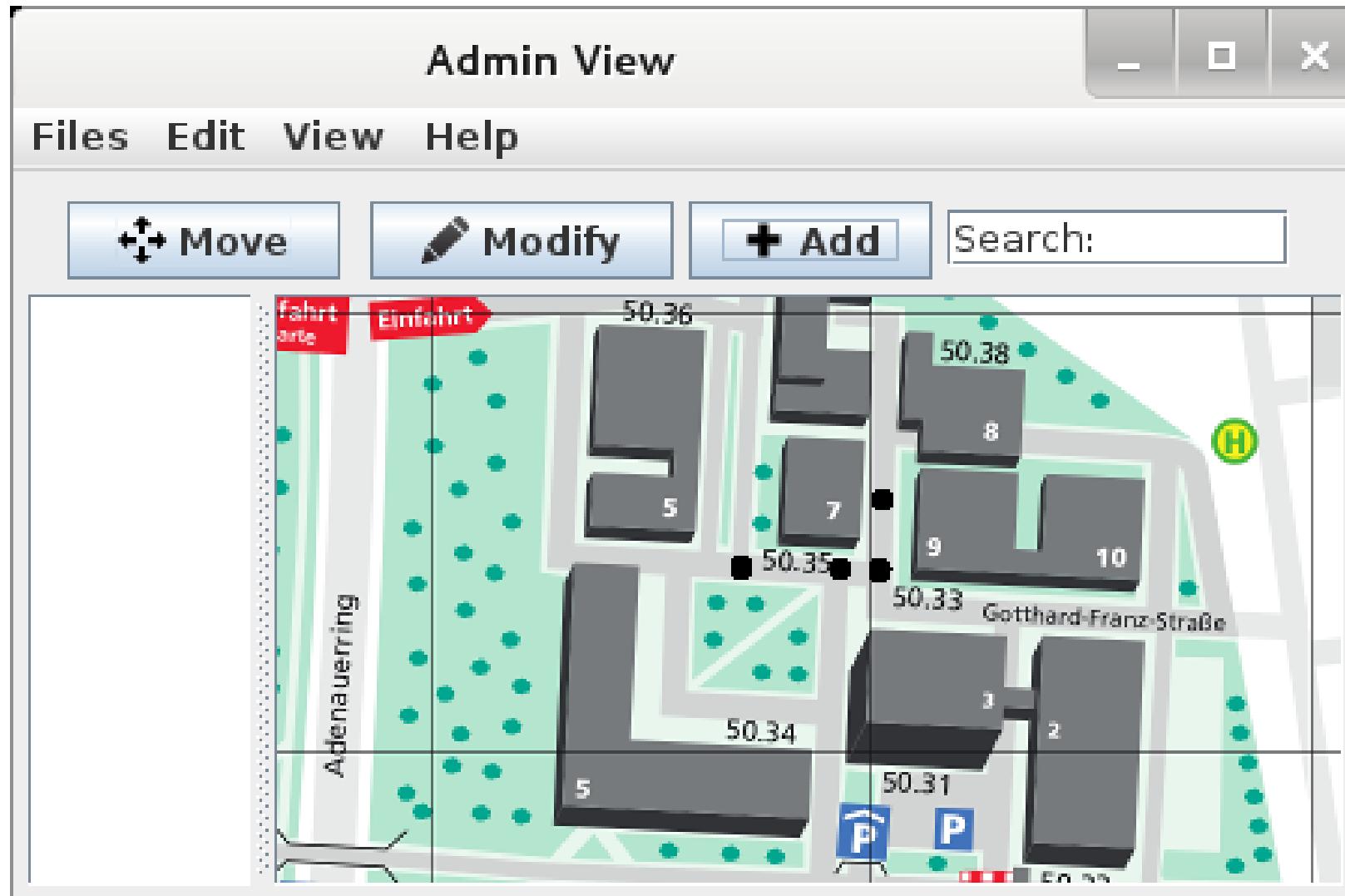
Set Scale

# Admin Tool Scenario



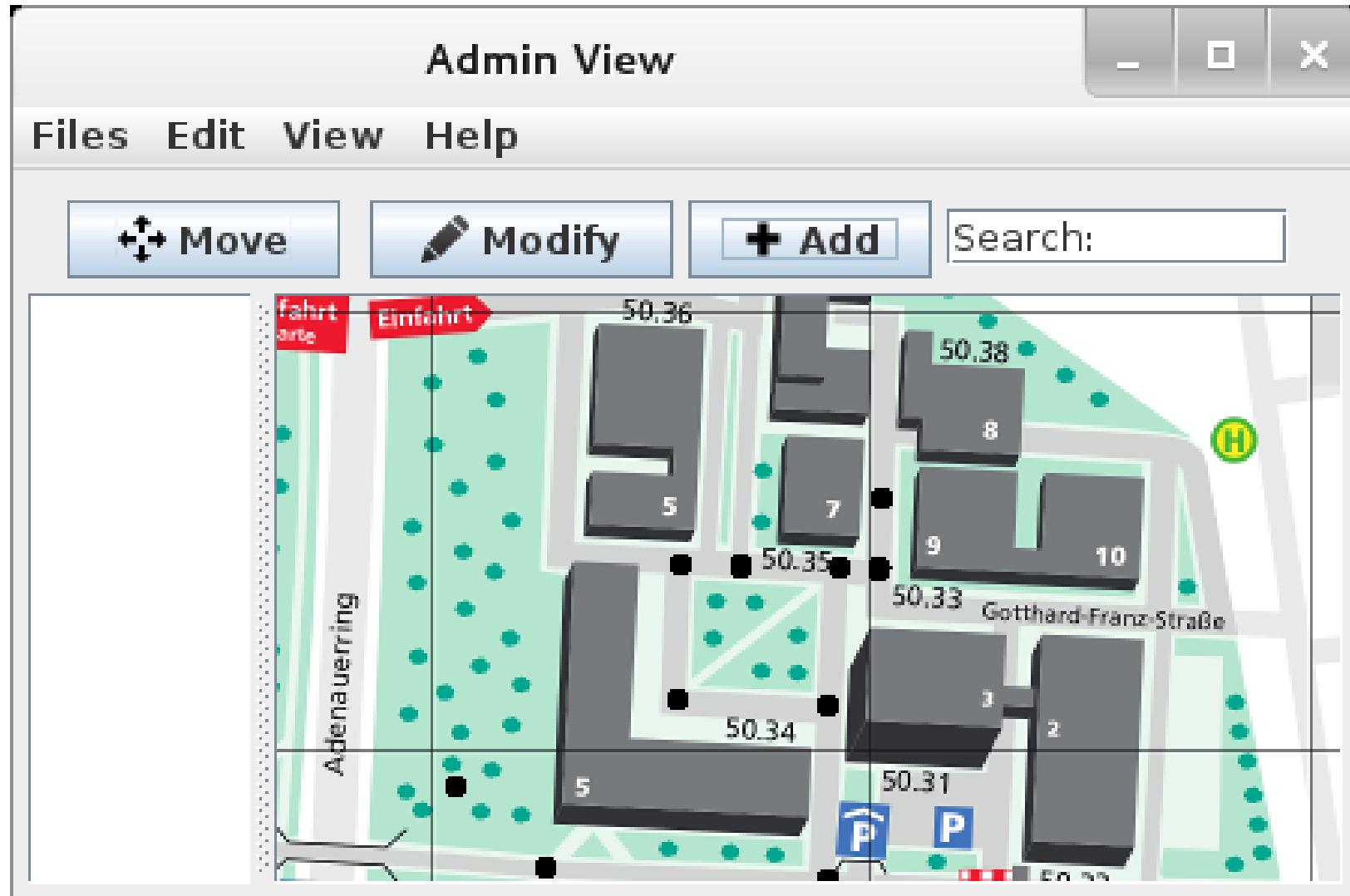
Create Vertex

# Admin Tool Scenario



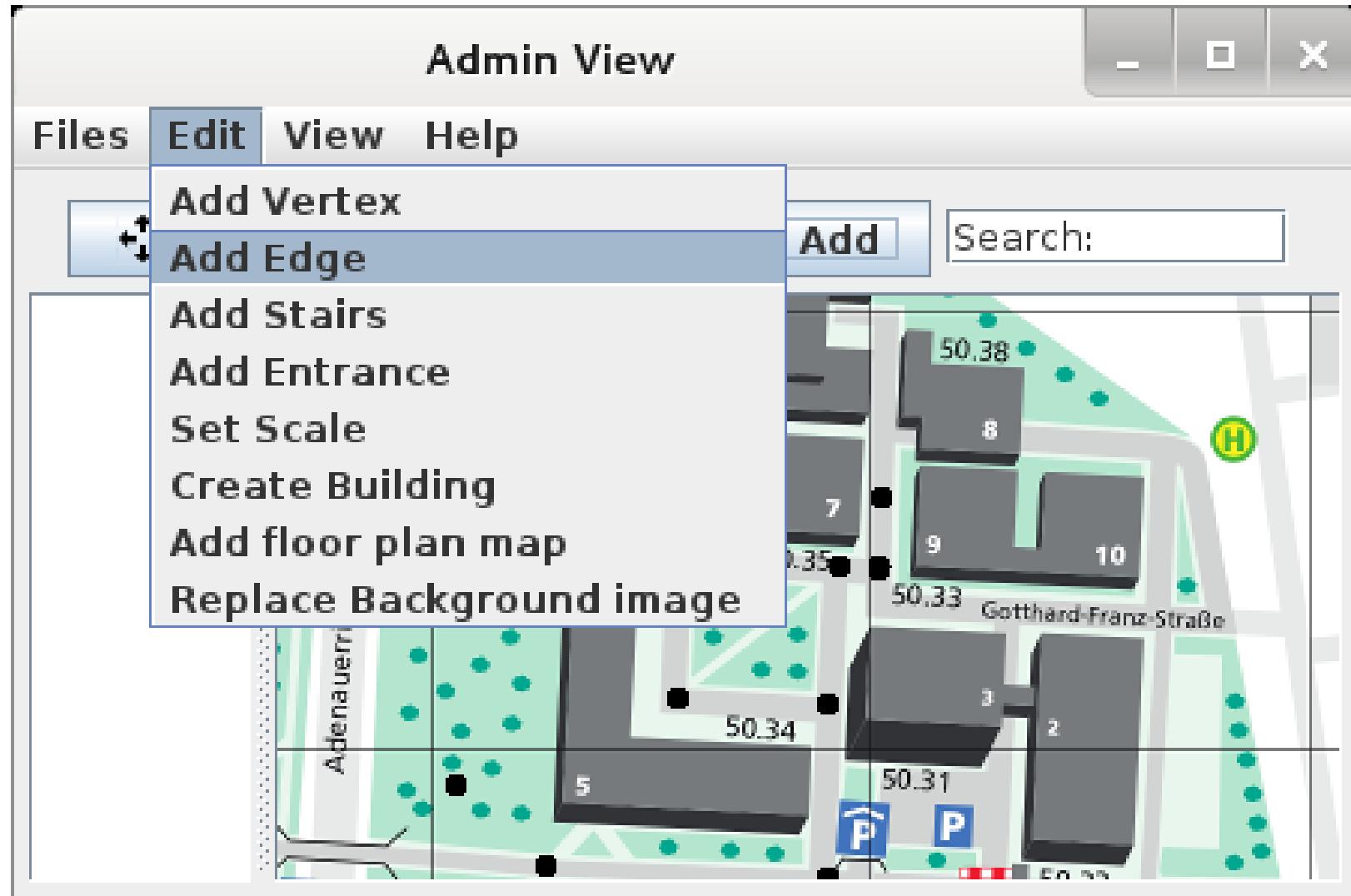
Create Vertices

# Admin Tool Scenario



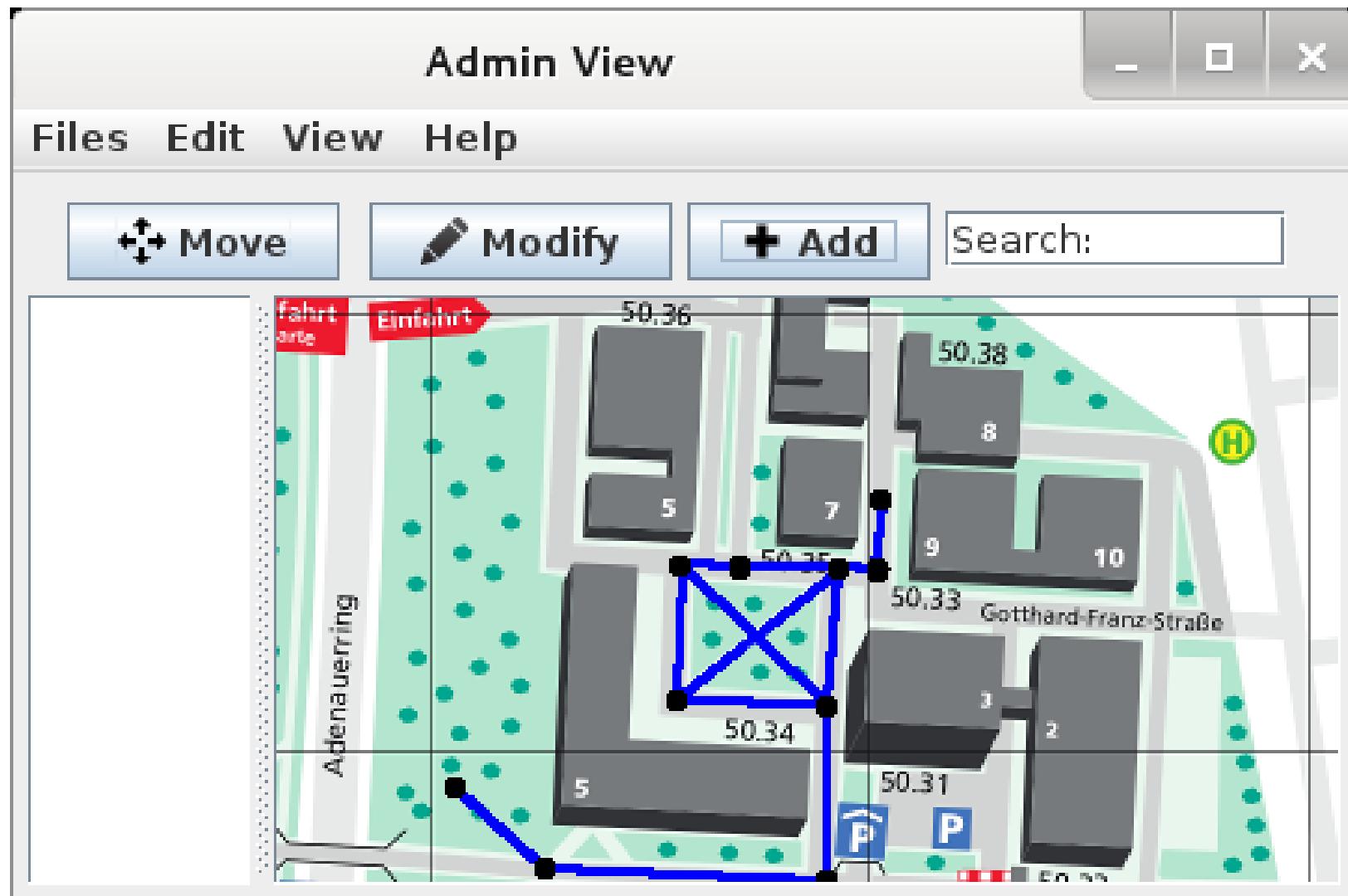
Create Vertices

# Admin Tool Scenario



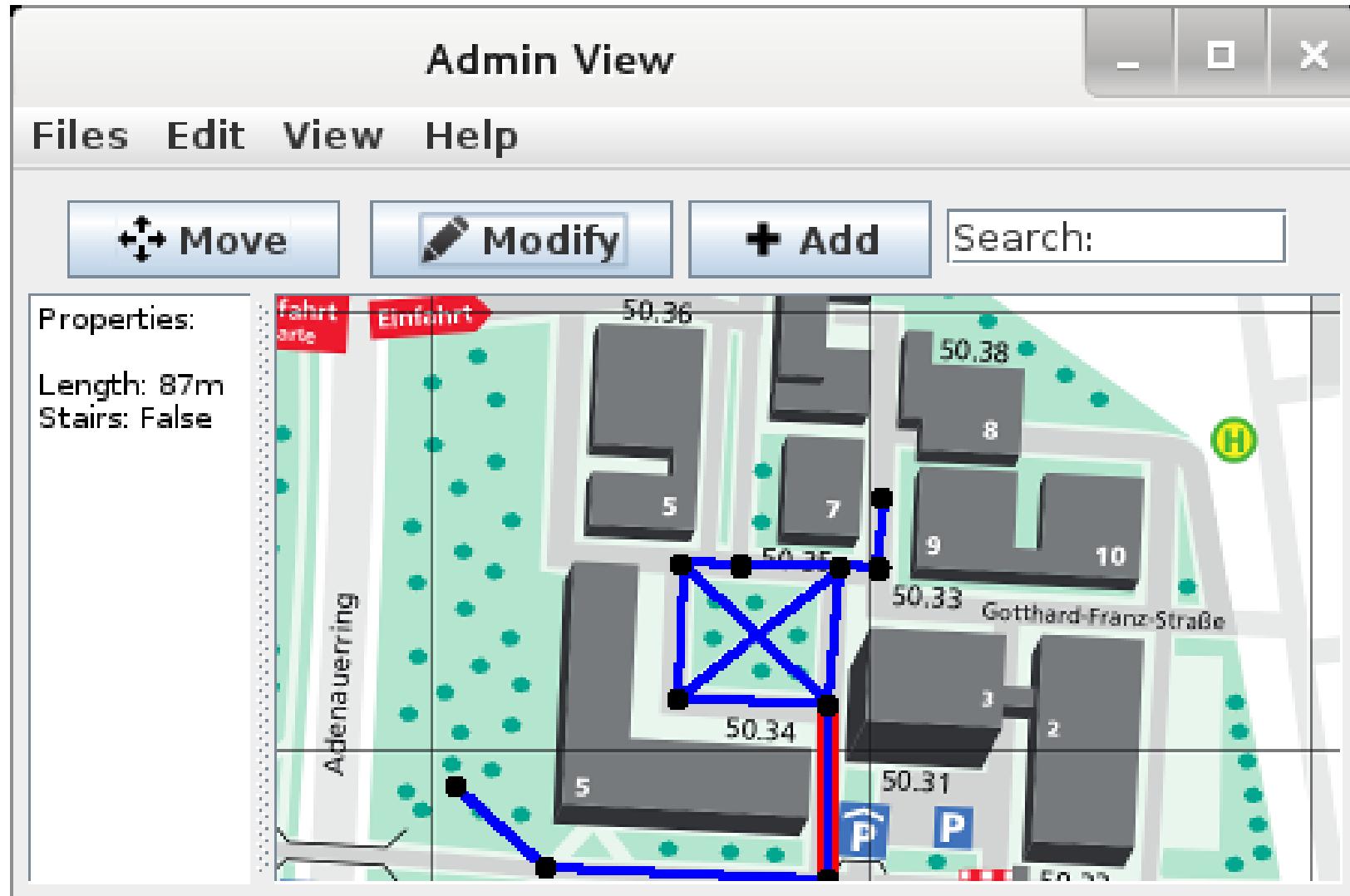
Create Edge

# Admin Tool Scenario



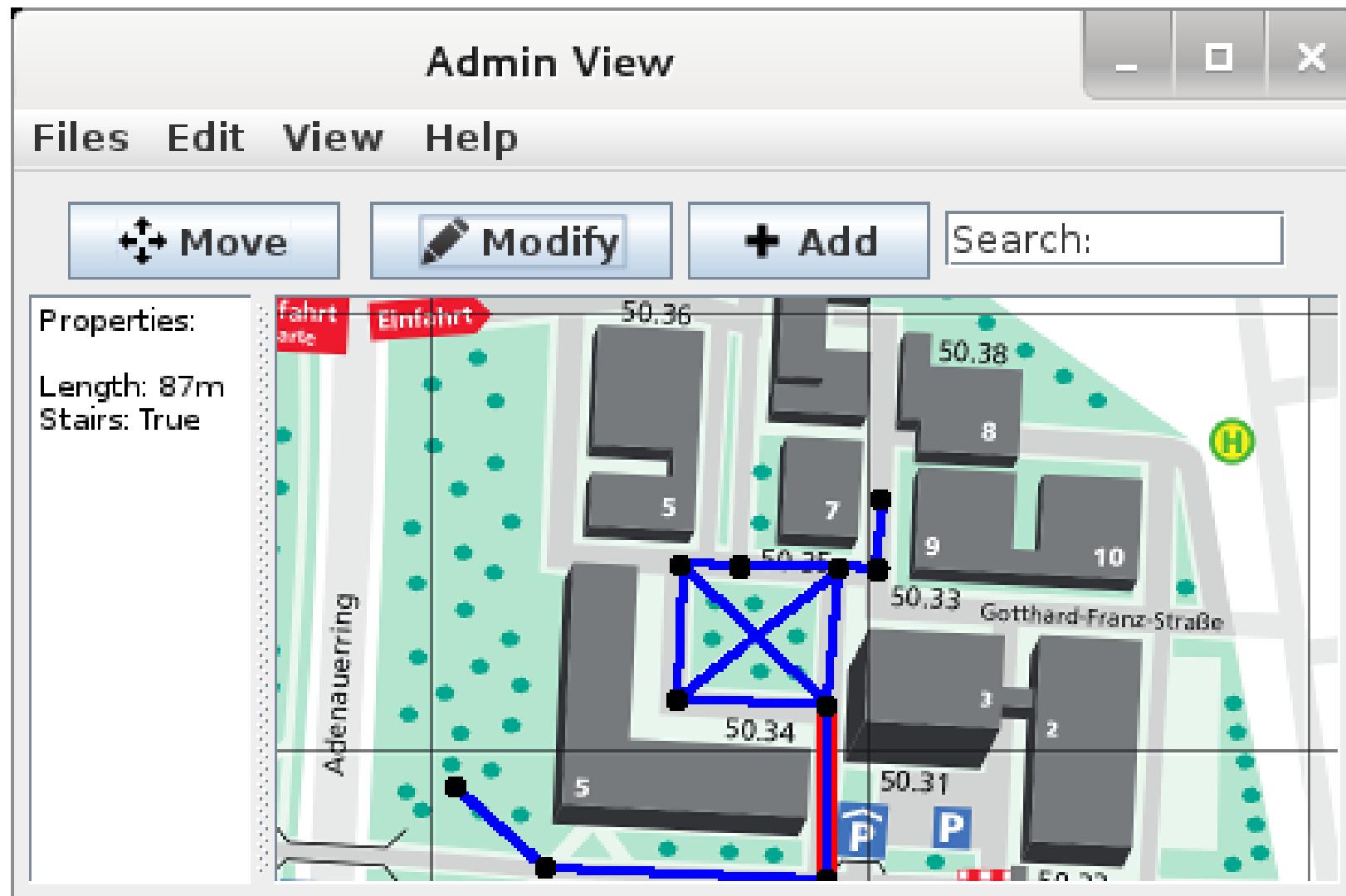
Create Edges

# Admin Tool Scenario



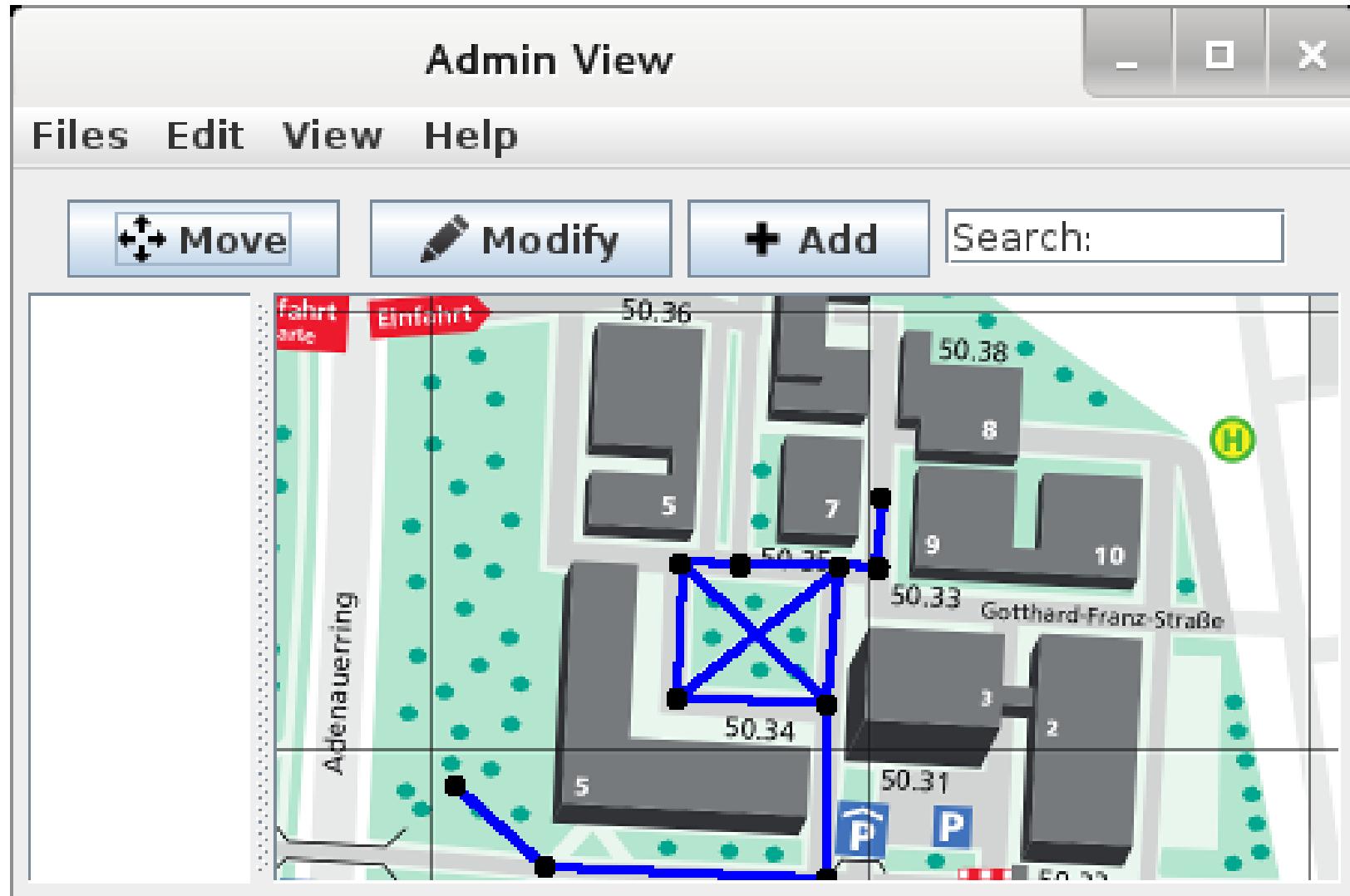
Select Edge

# Admin Tool Scenario



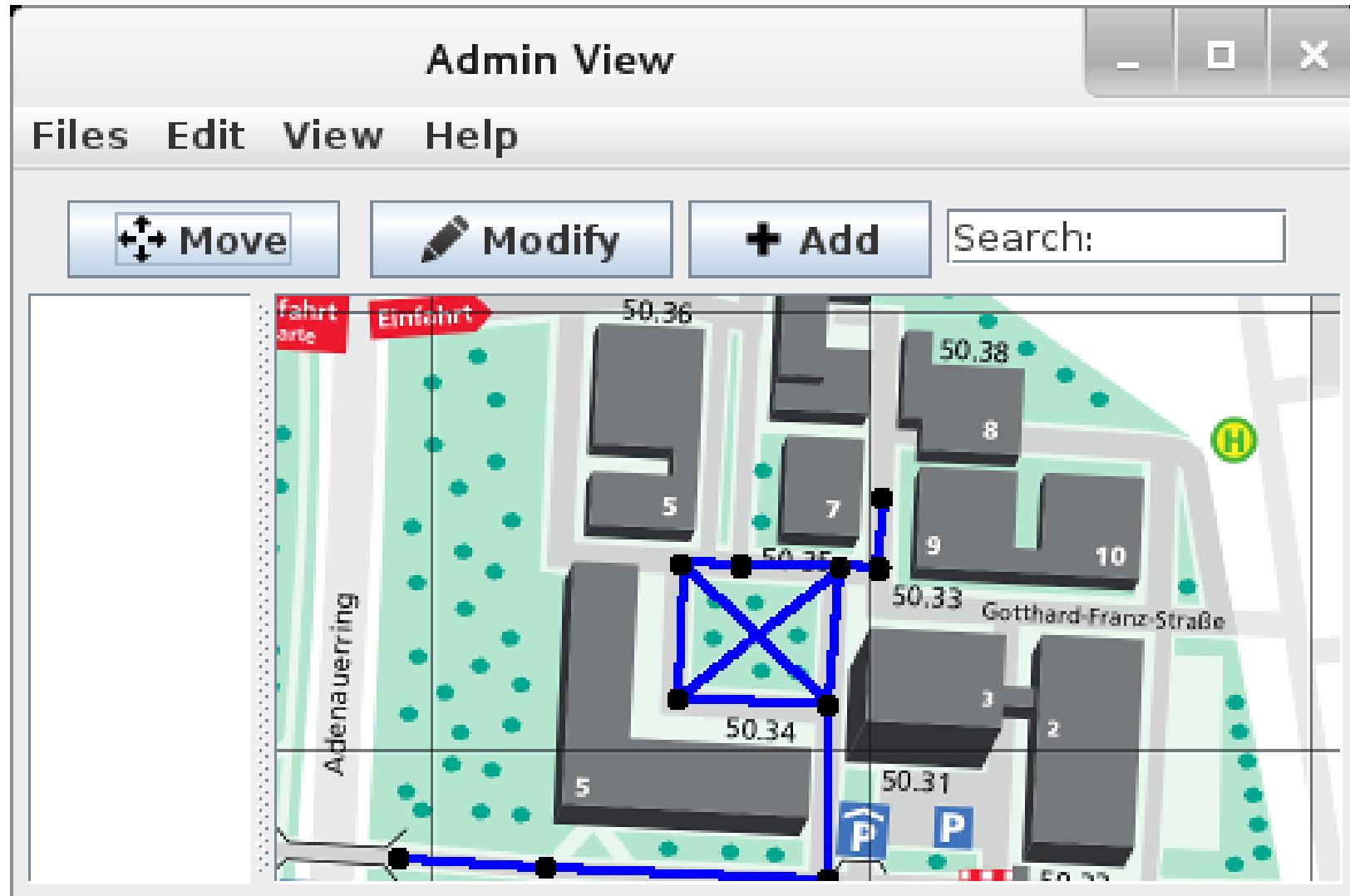
Modify Property Values

# Admin Tool Scenario



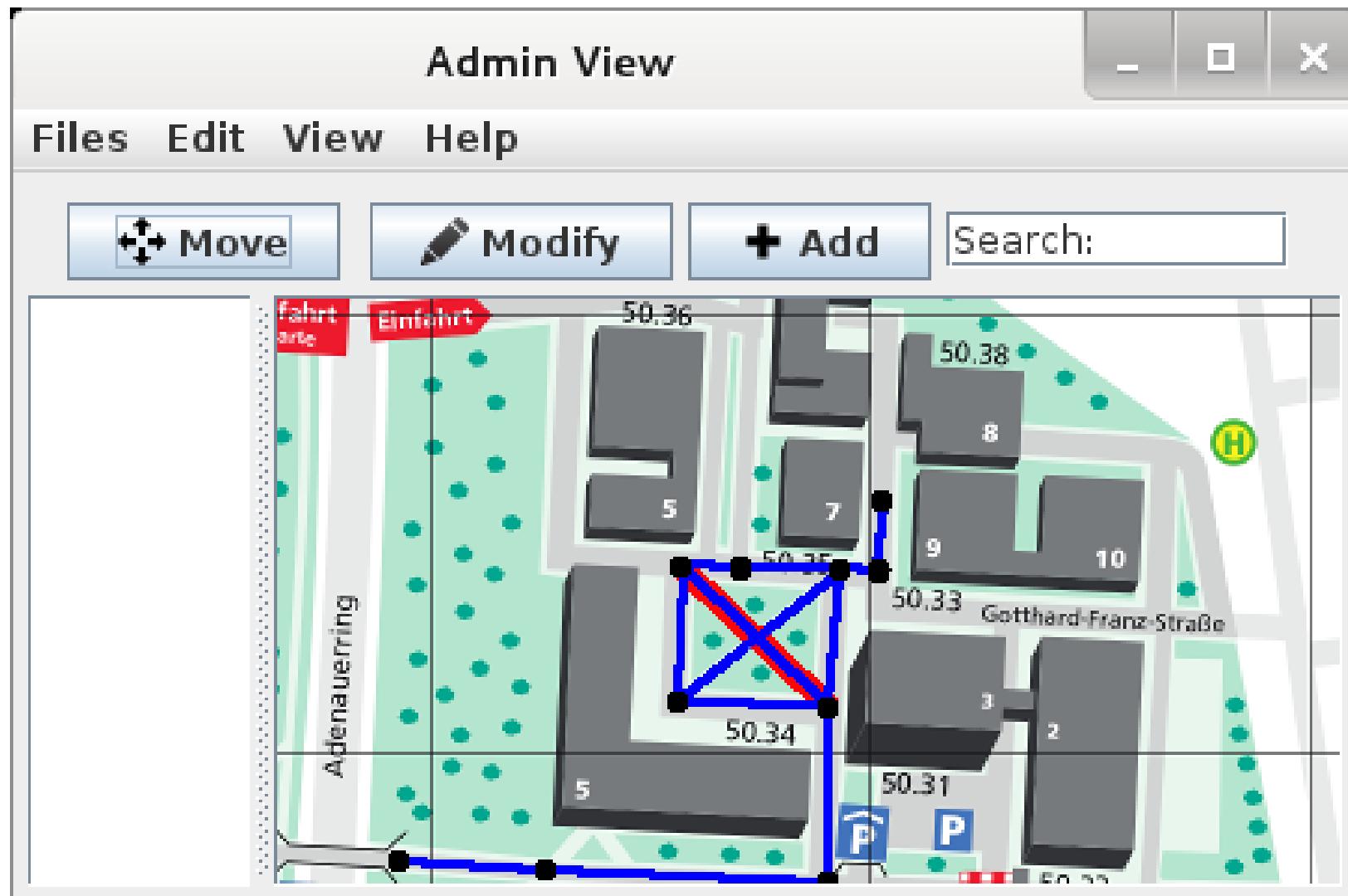
Move Edge

# Admin Tool Scenario



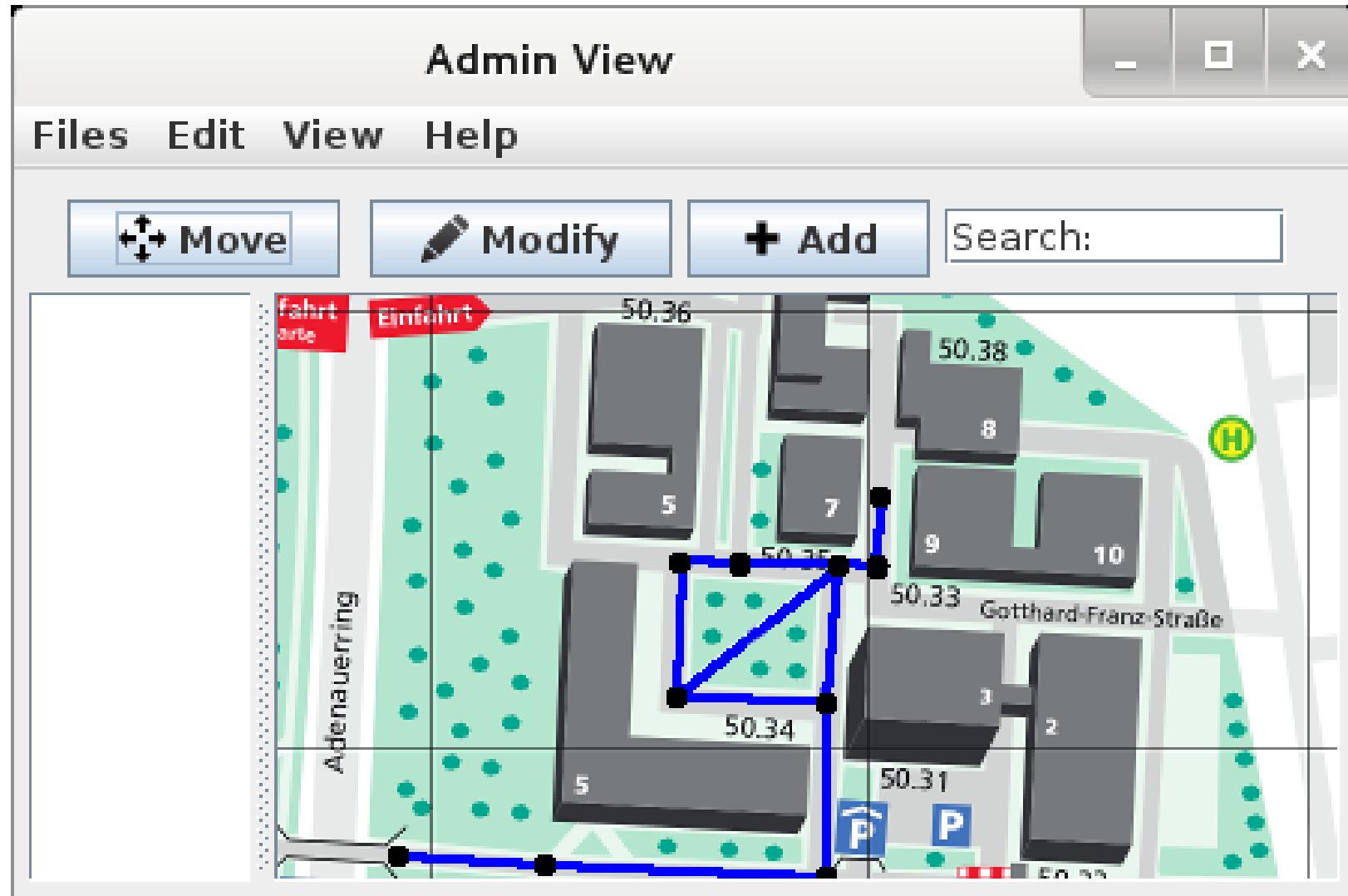
Move Edge

# Admin Tool Scenario



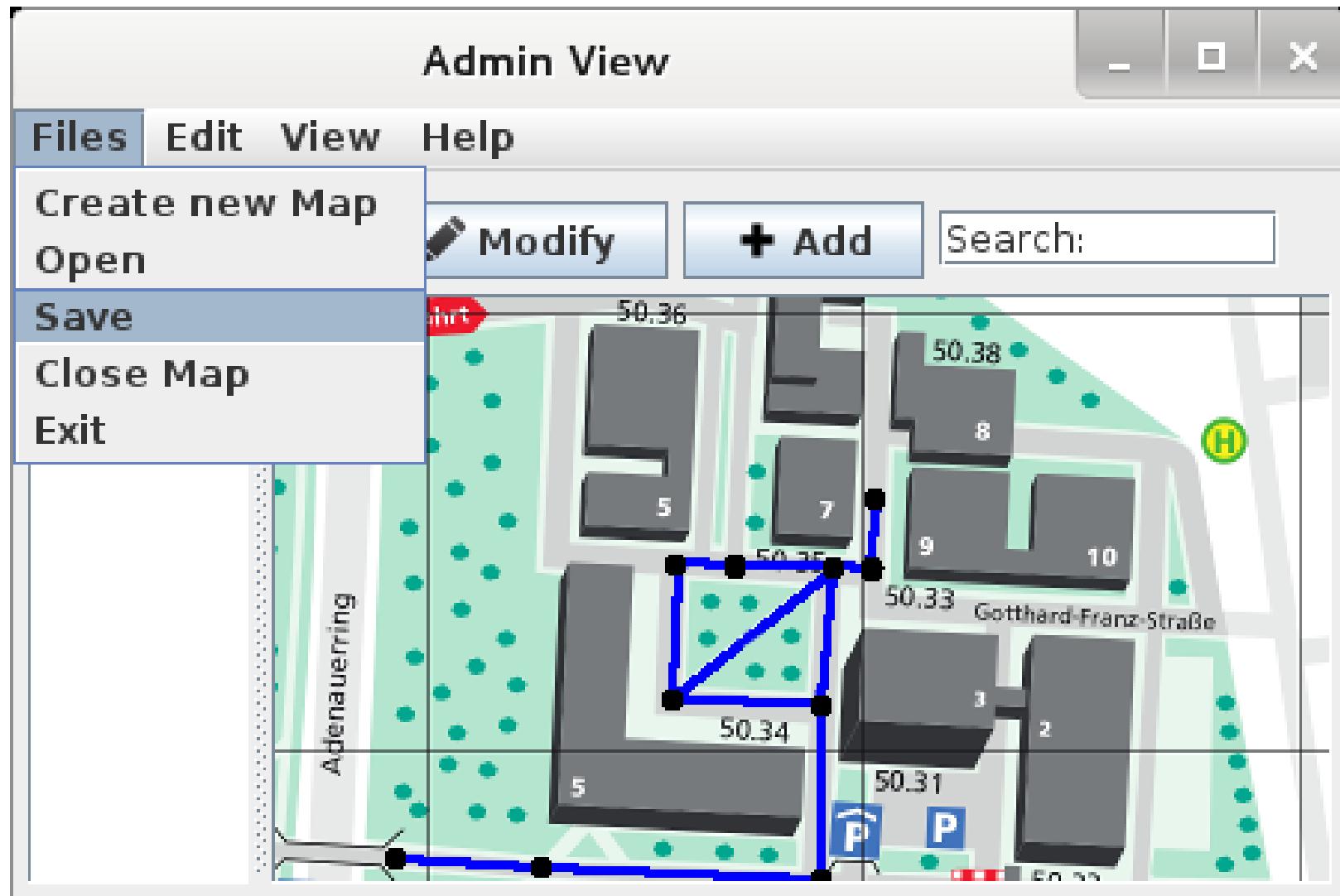
Remove Edge

# Admin Tool Scenario



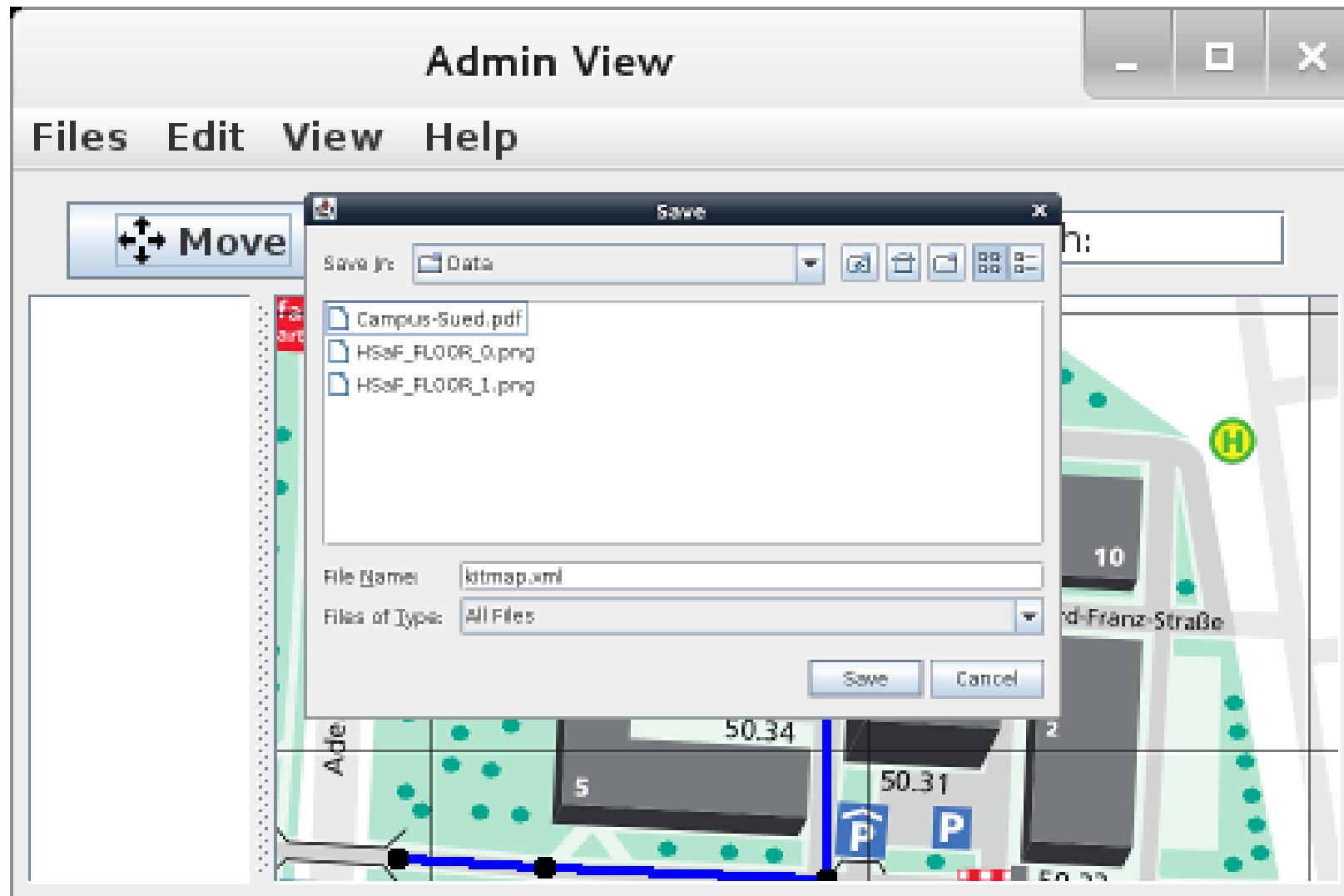
Remove Edge

# Admin Tool Scenario



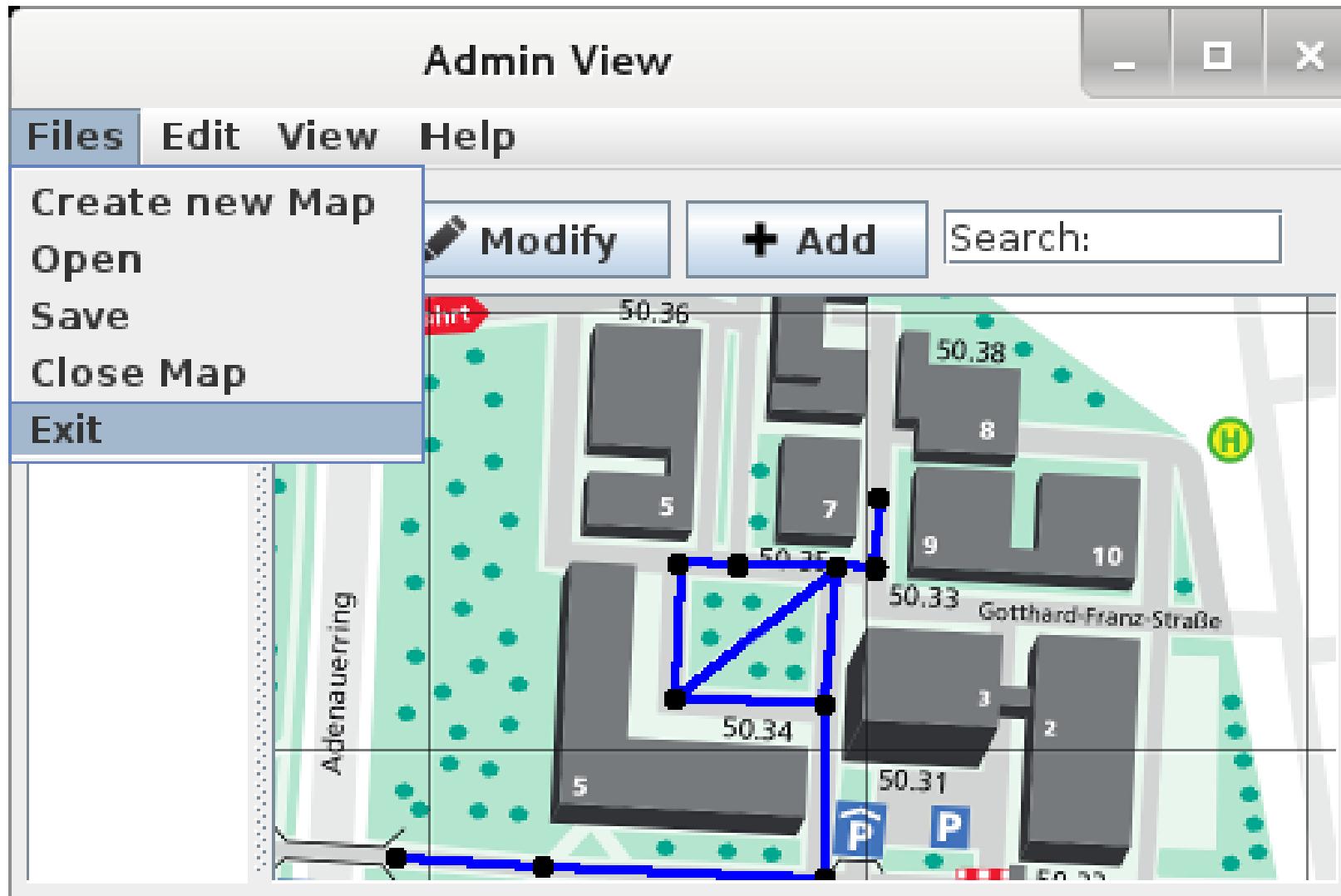
Save Map

# Admin Tool Scenario



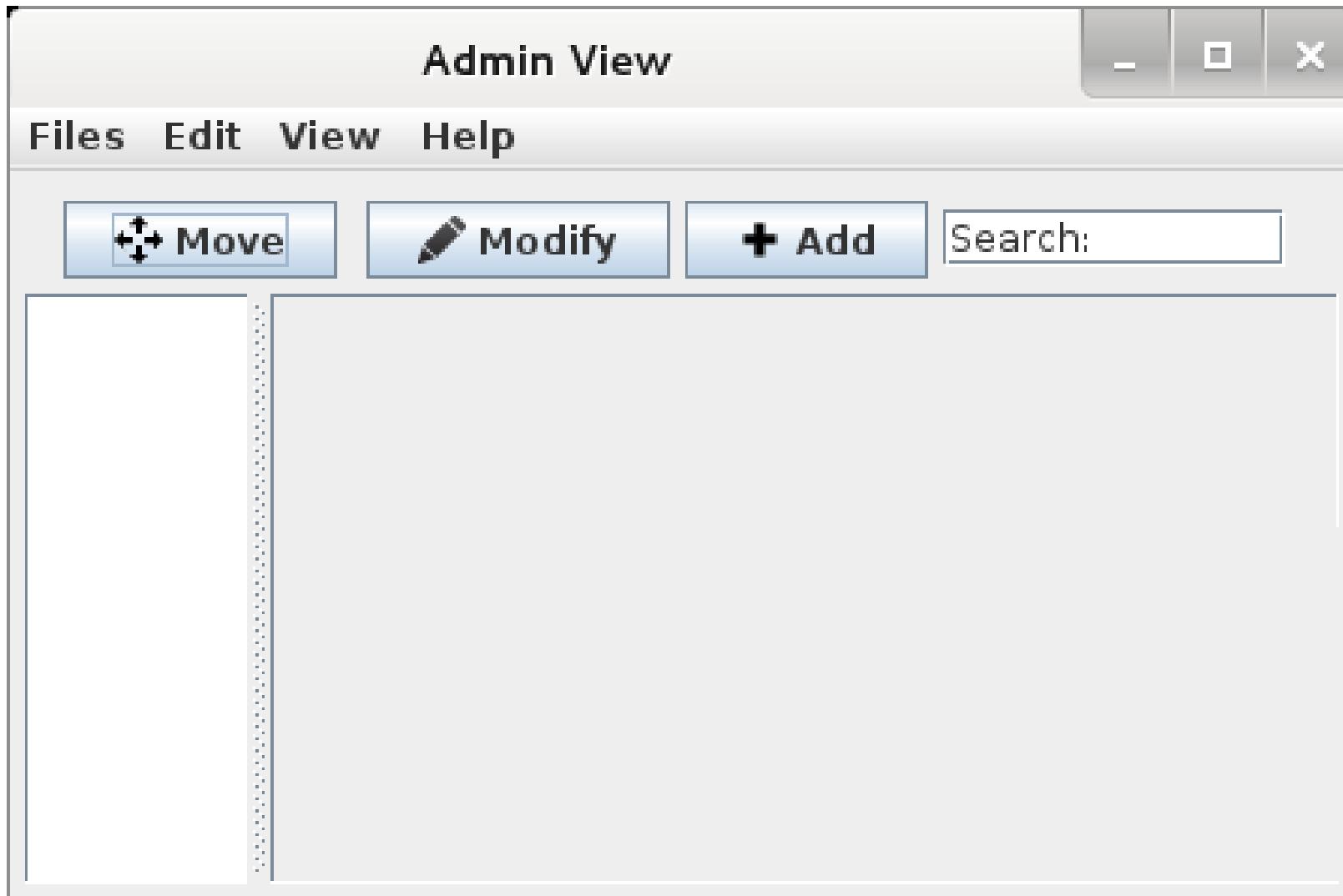
Save Map

# Admin Tool Scenario



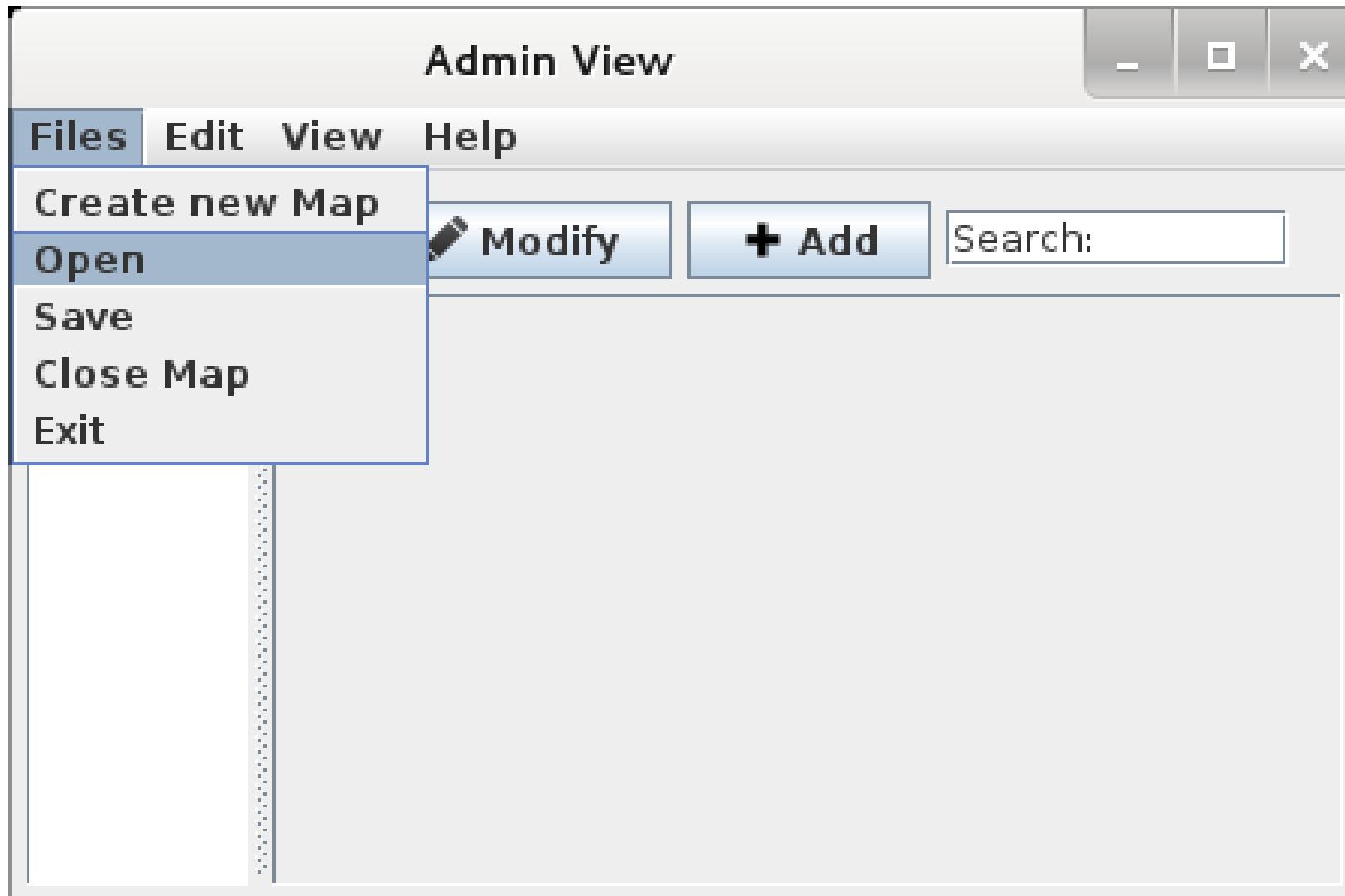
Exit Program

# Admin Tool Scenario



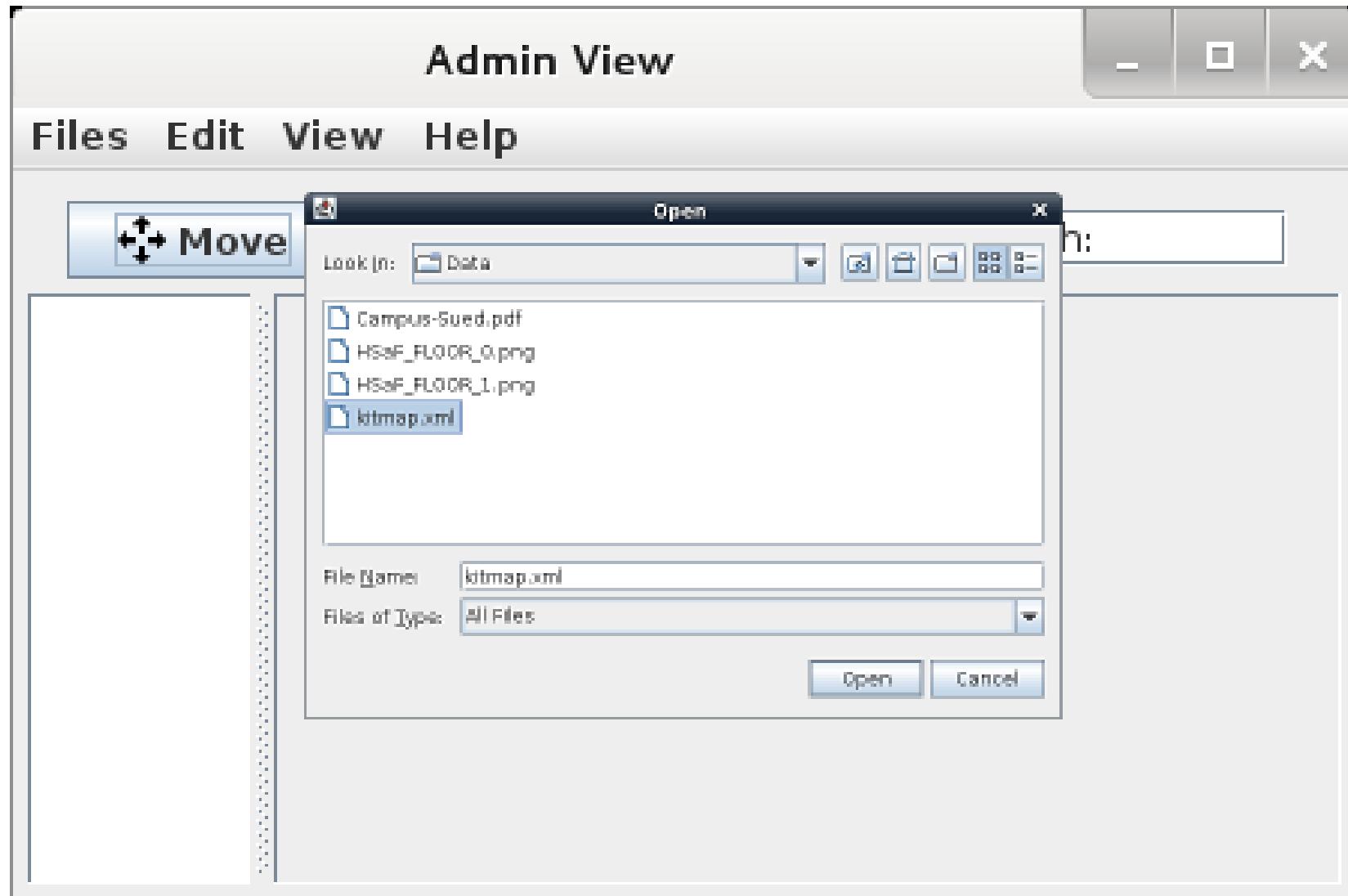
Start Program

# Admin Tool Scenario



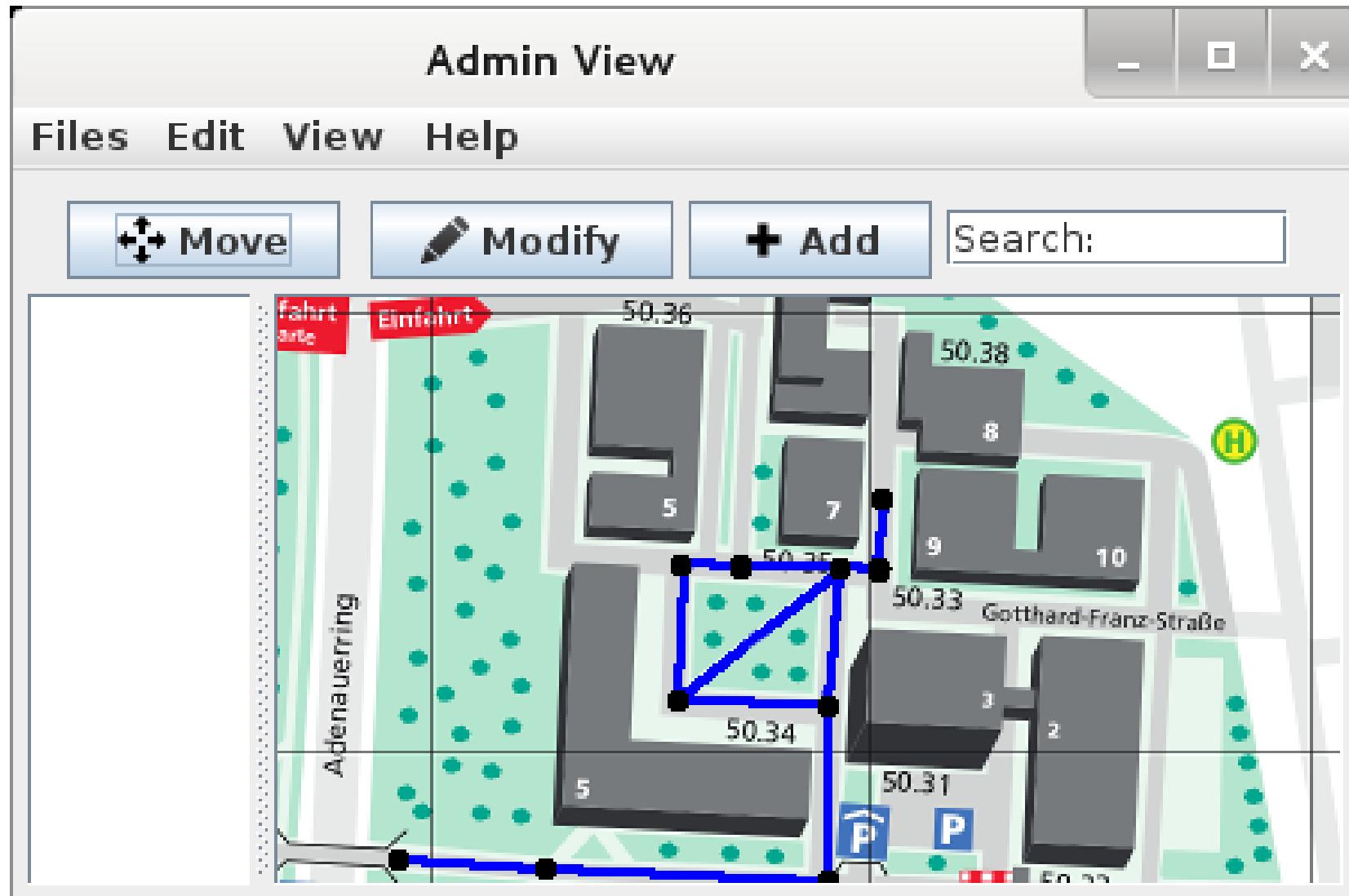
Open Map

# Admin Tool Scenario



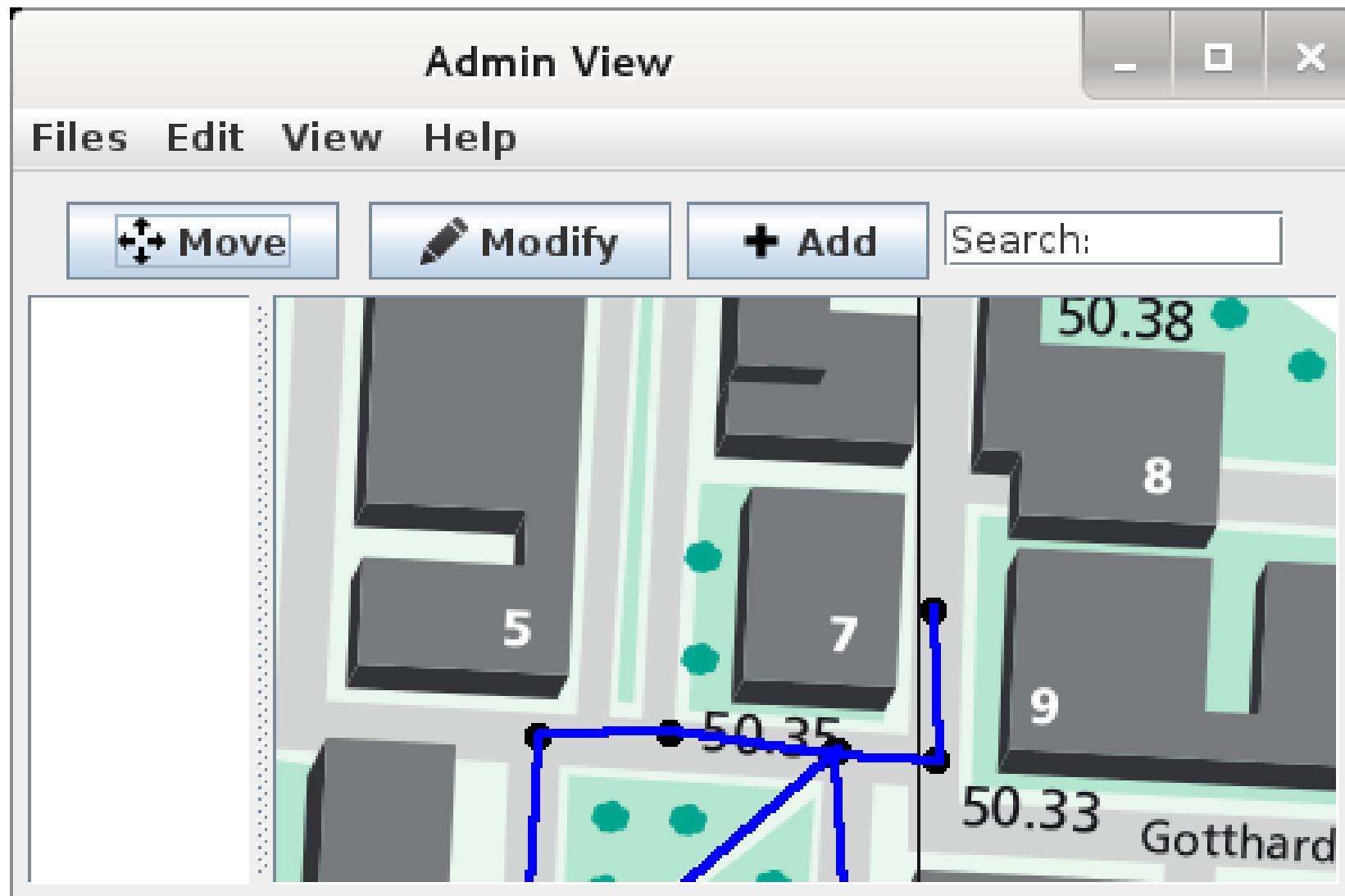
Open Map

# Admin Tool Scenario



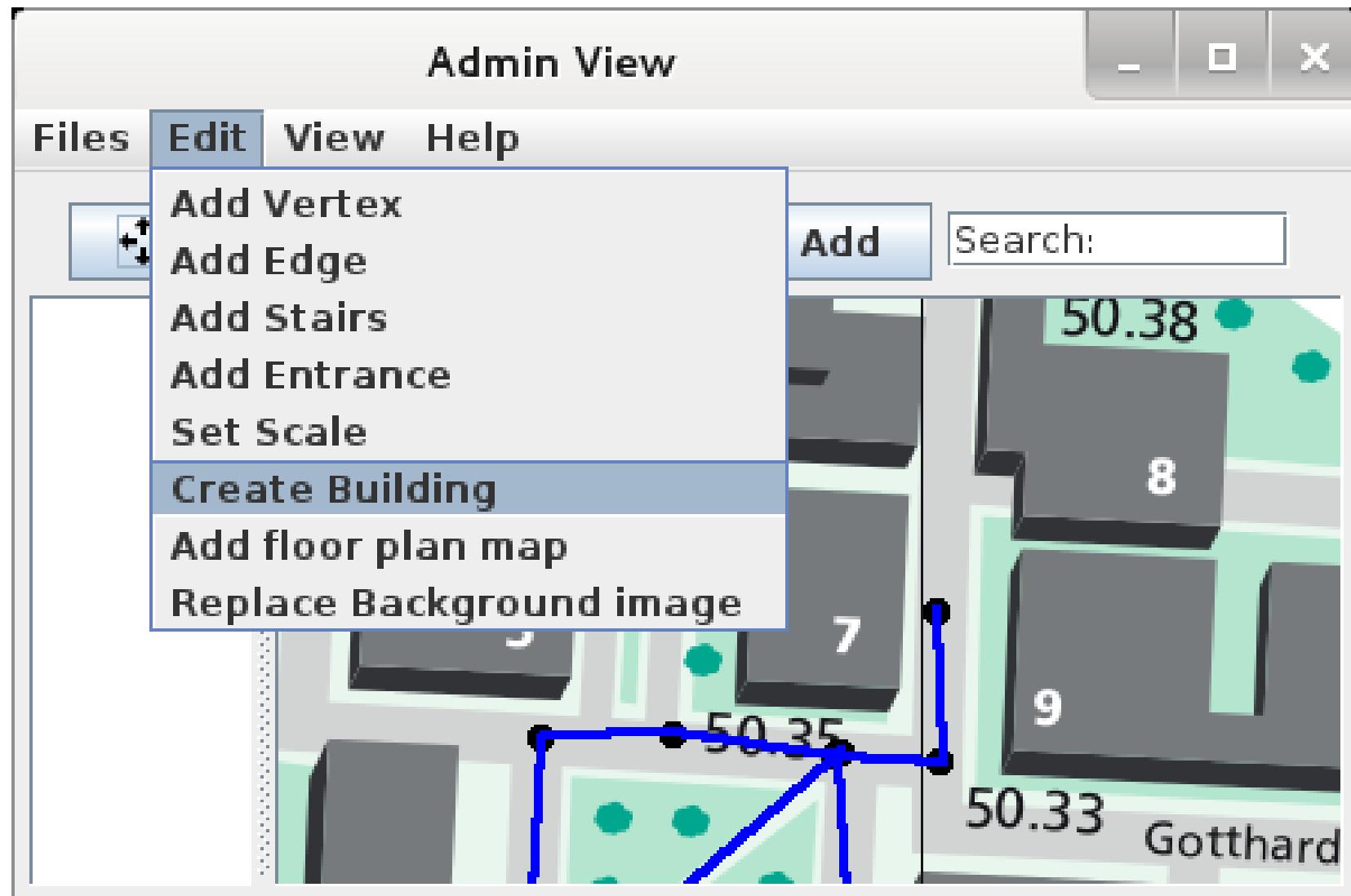
Open Map

# Admin Tool Scenario



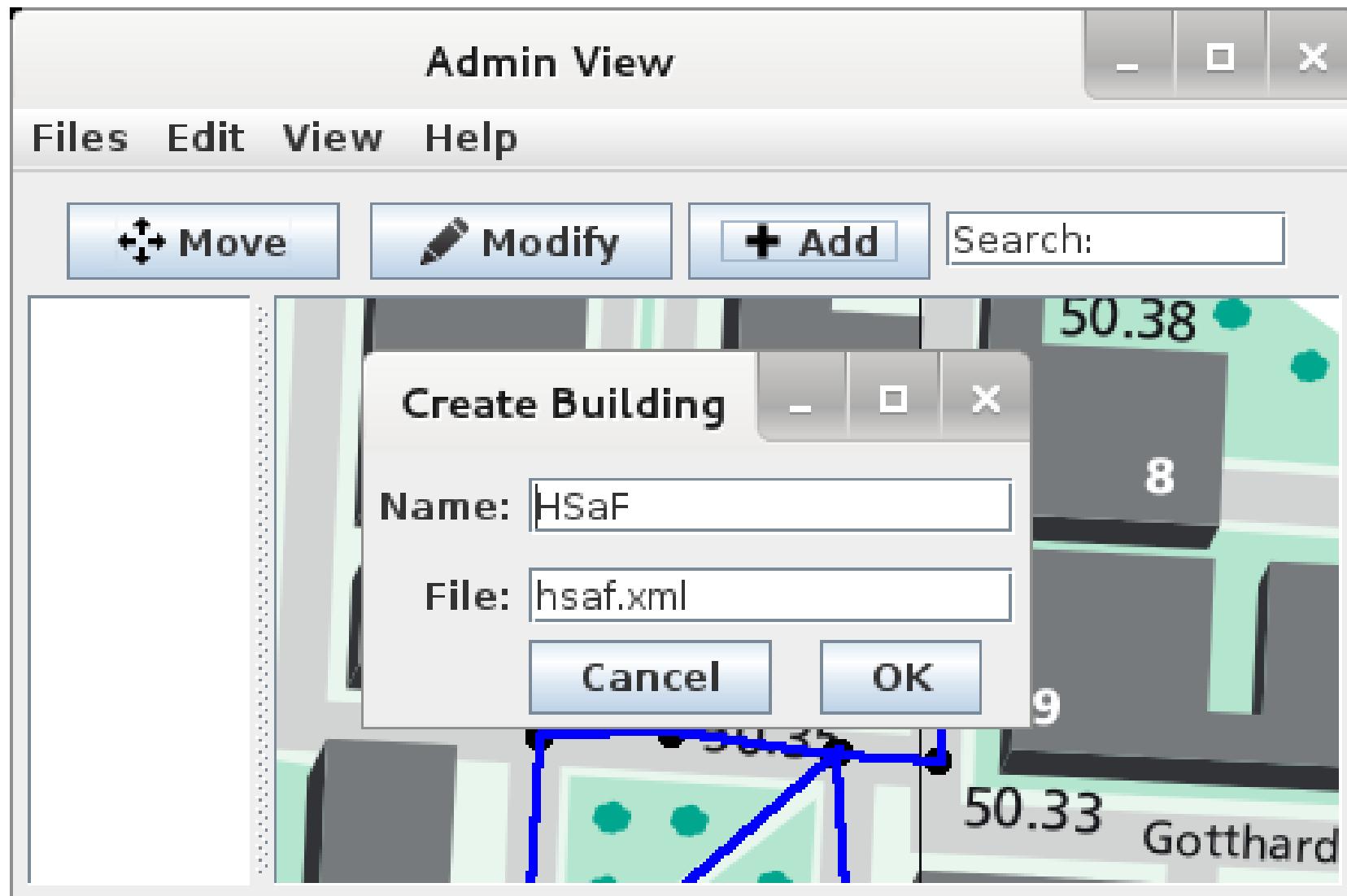
Zoom

# Admin Tool Scenario



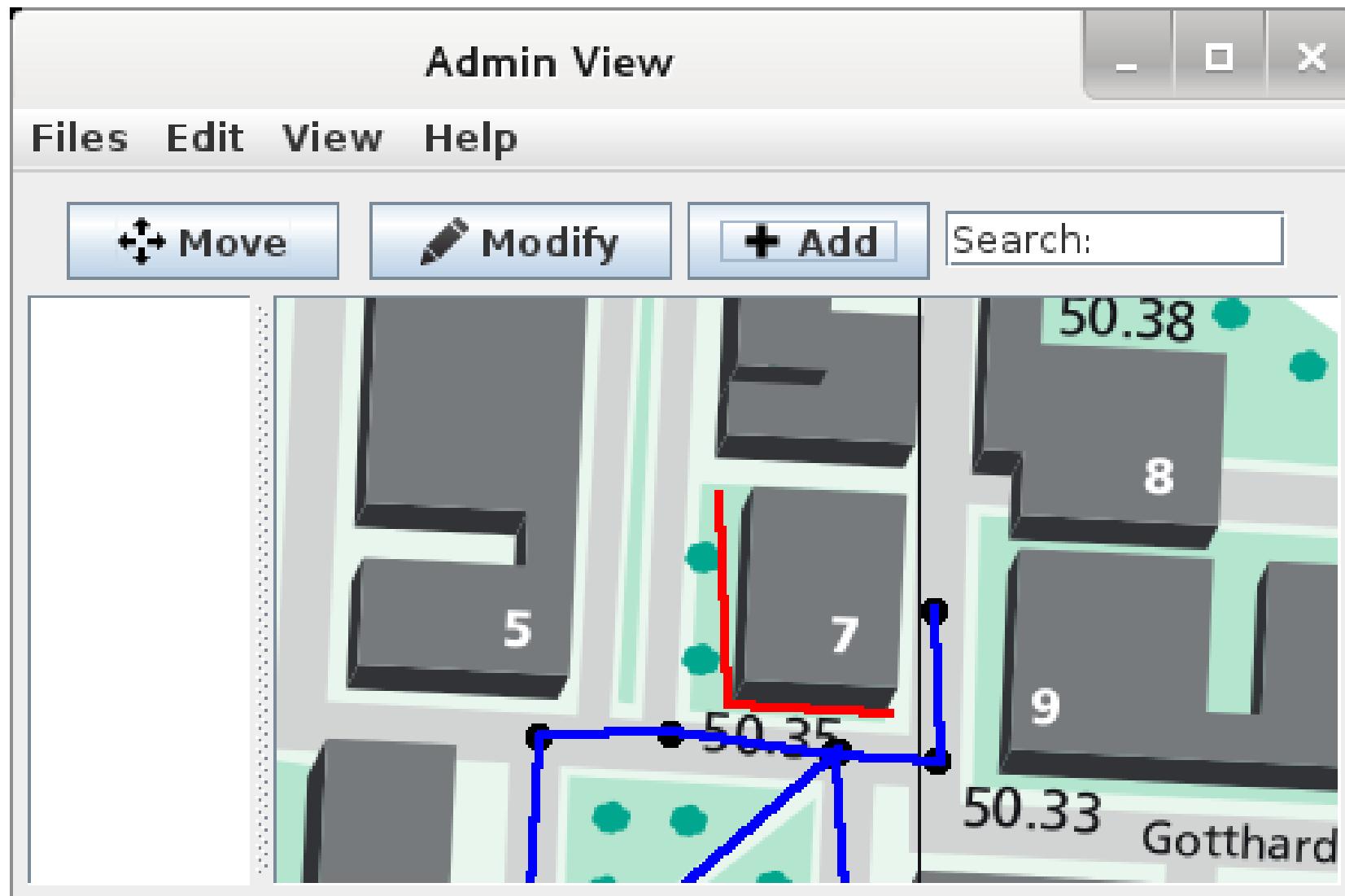
Create Building

# Admin Tool Scenario



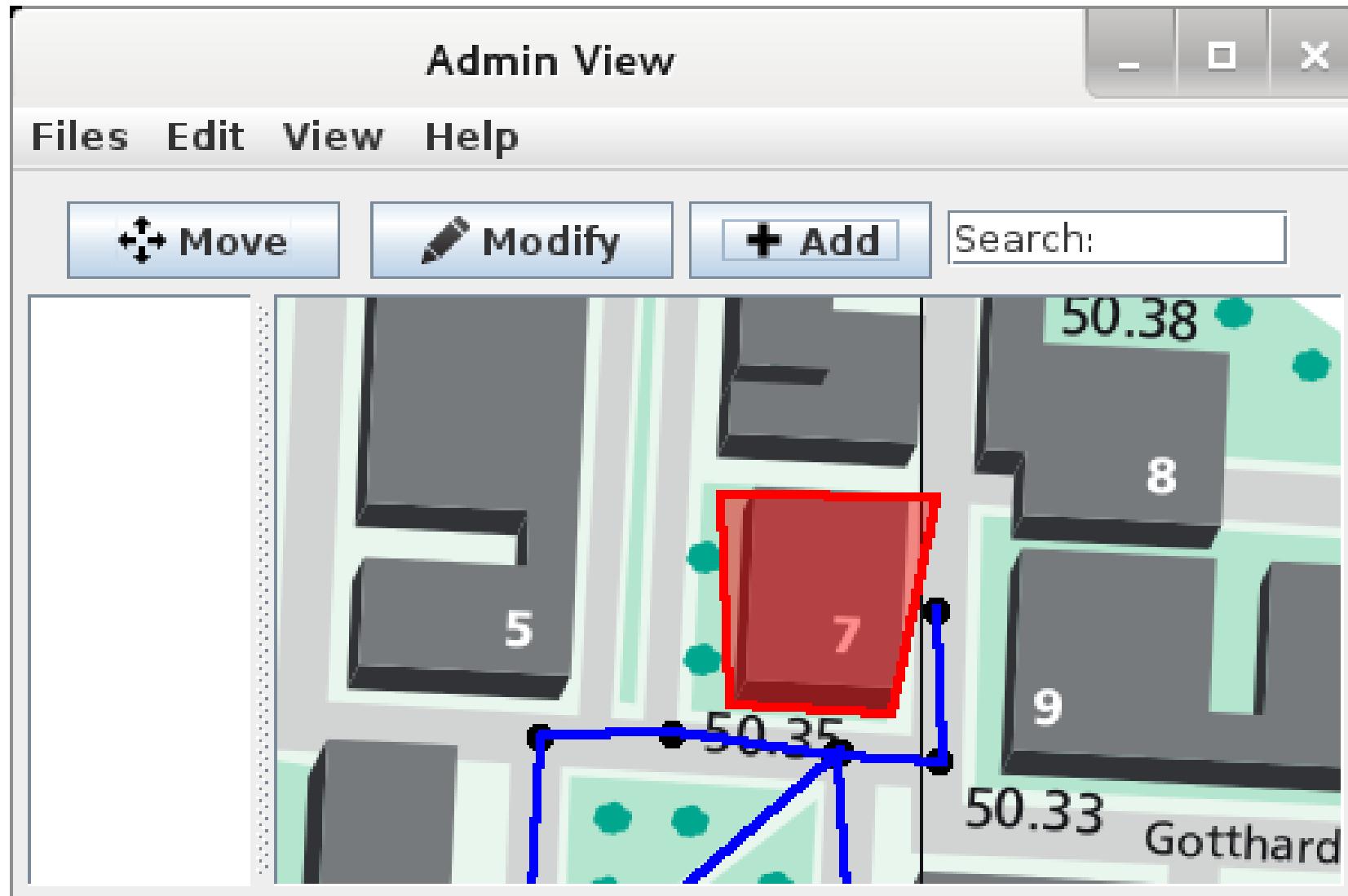
Create Building

# Admin Tool Scenario



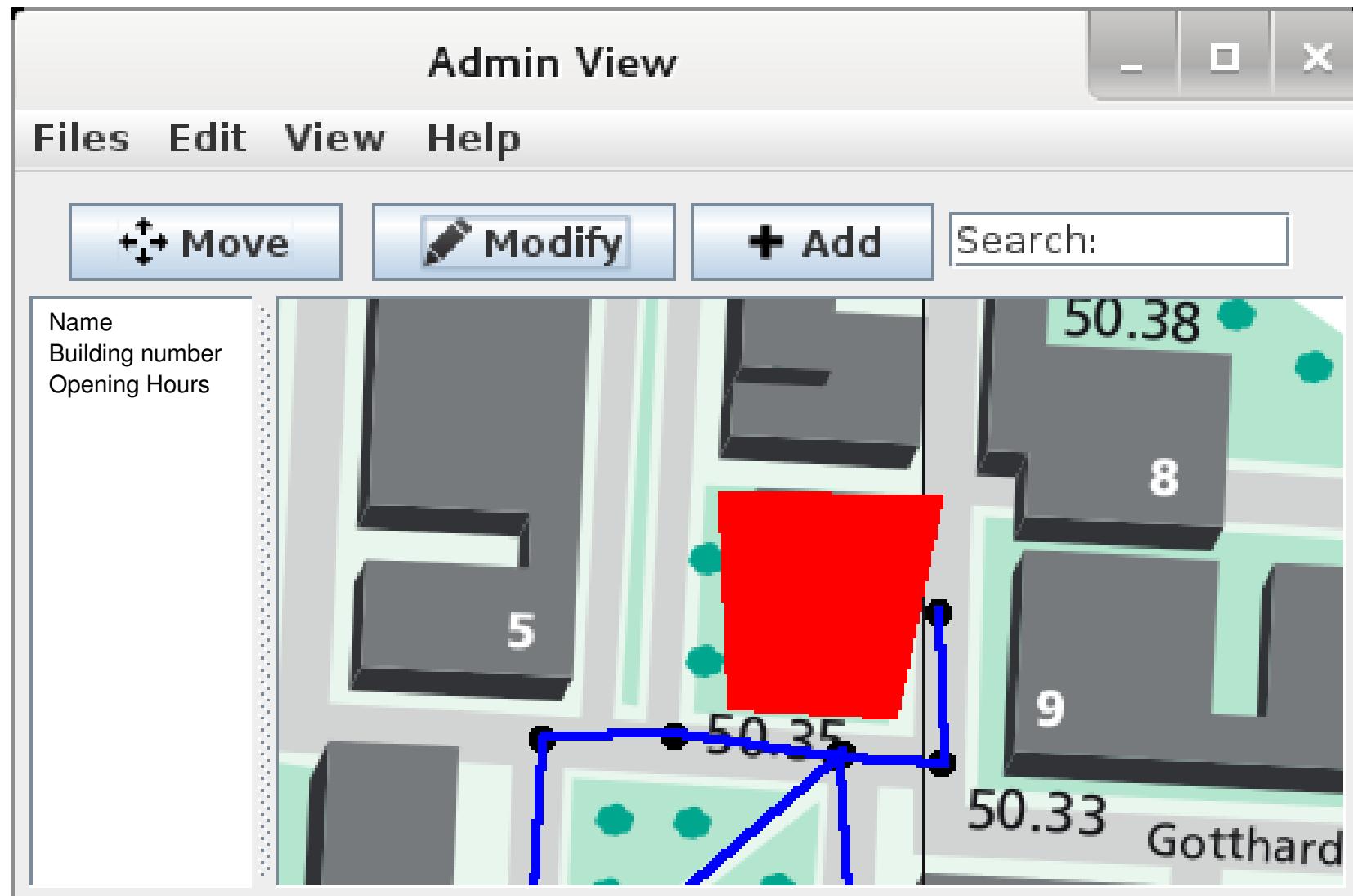
Create Building

# Admin Tool Scenario



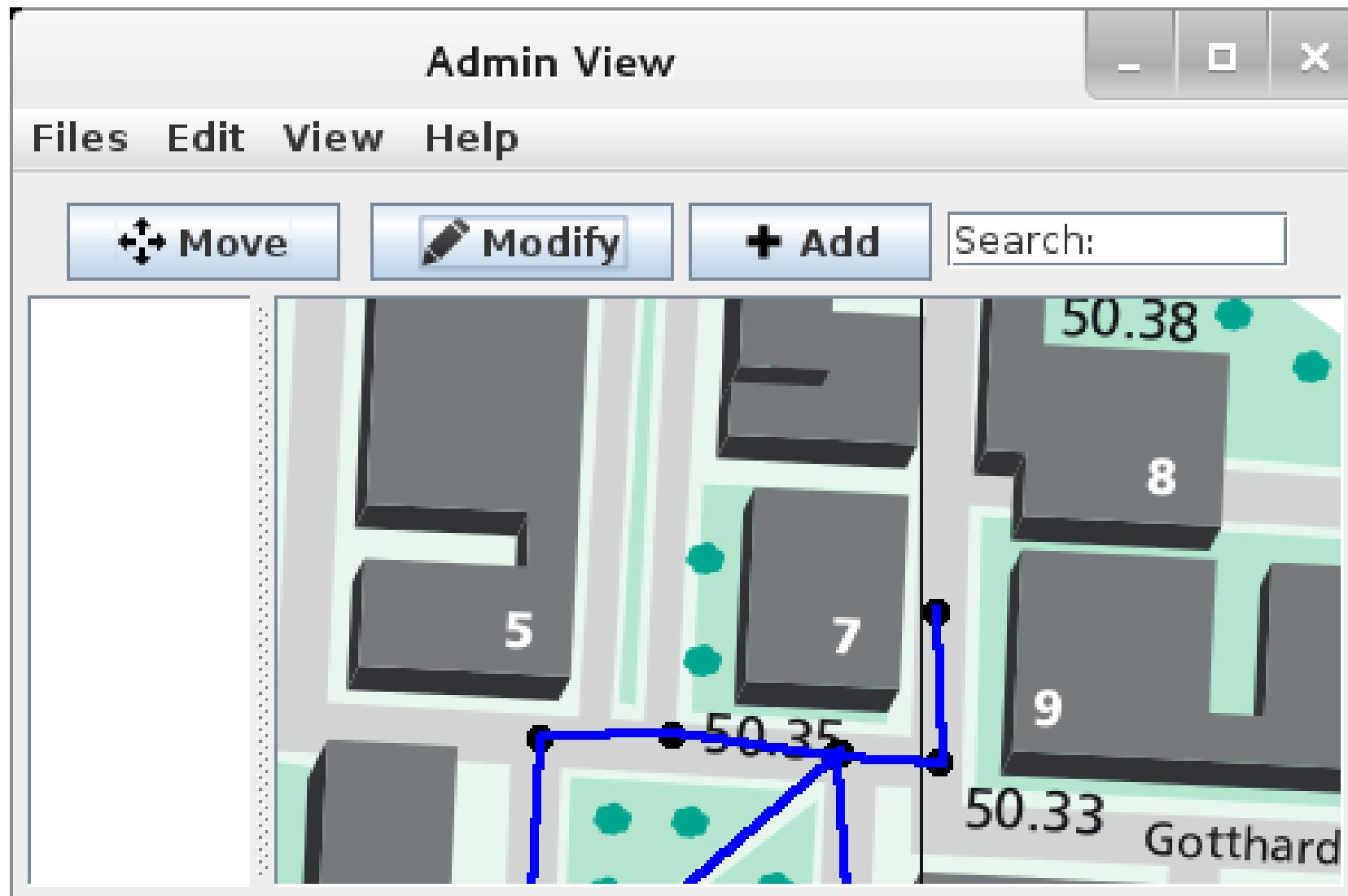
Create Building

# Admin Tool Scenario



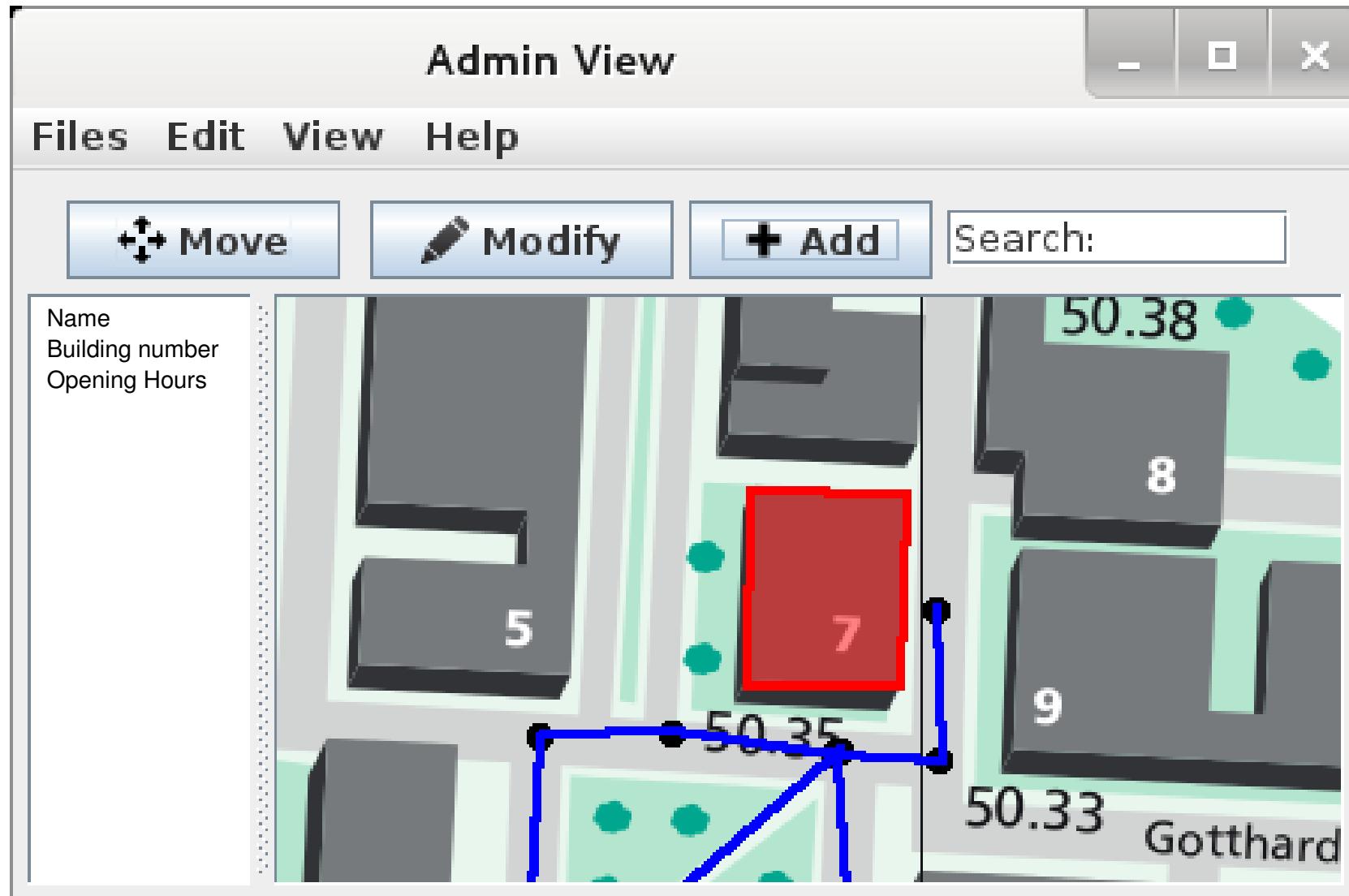
Select Building, Delete Building

# Admin Tool Scenario



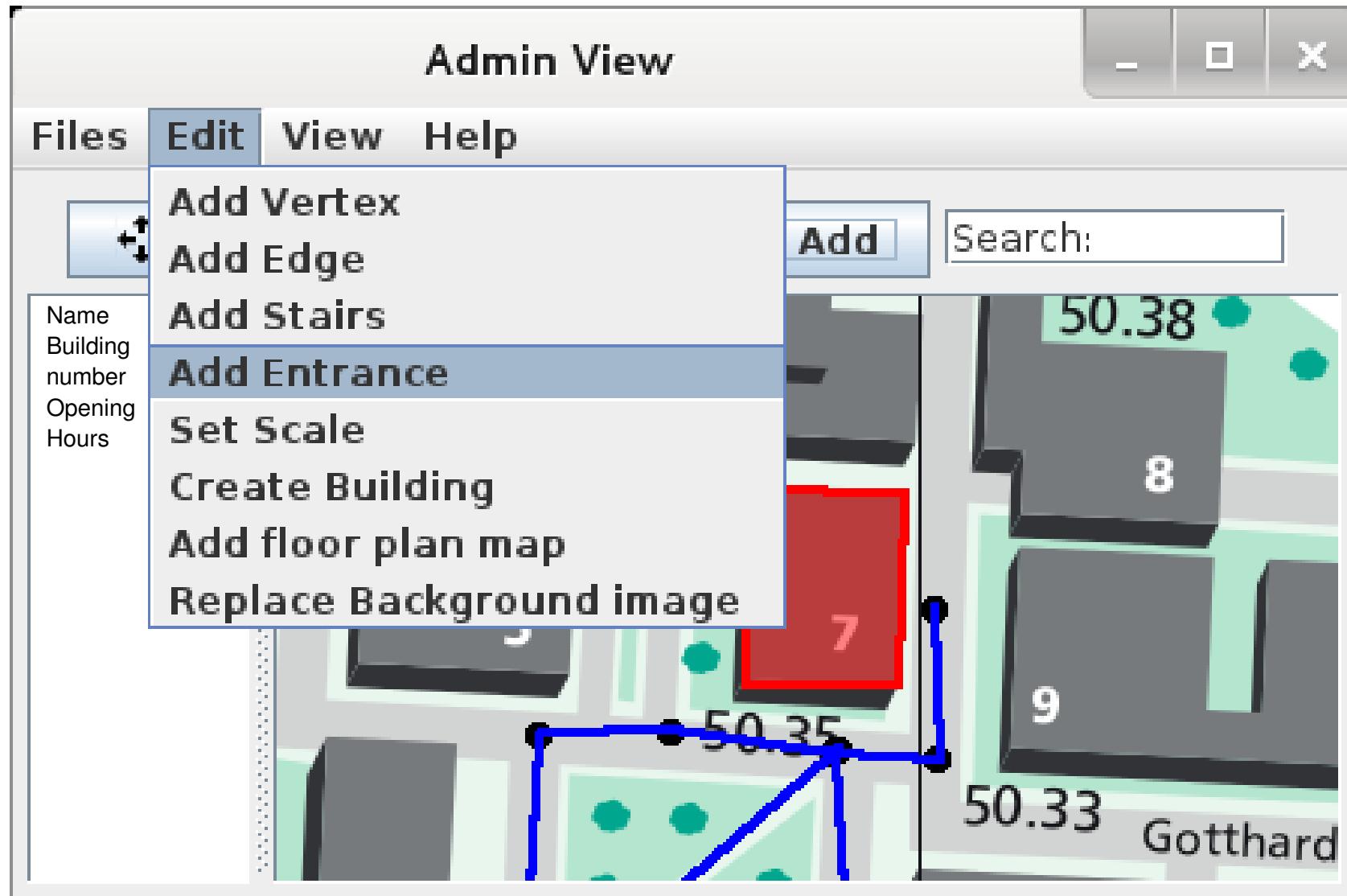
Delete Building

# Admin Tool Scenario



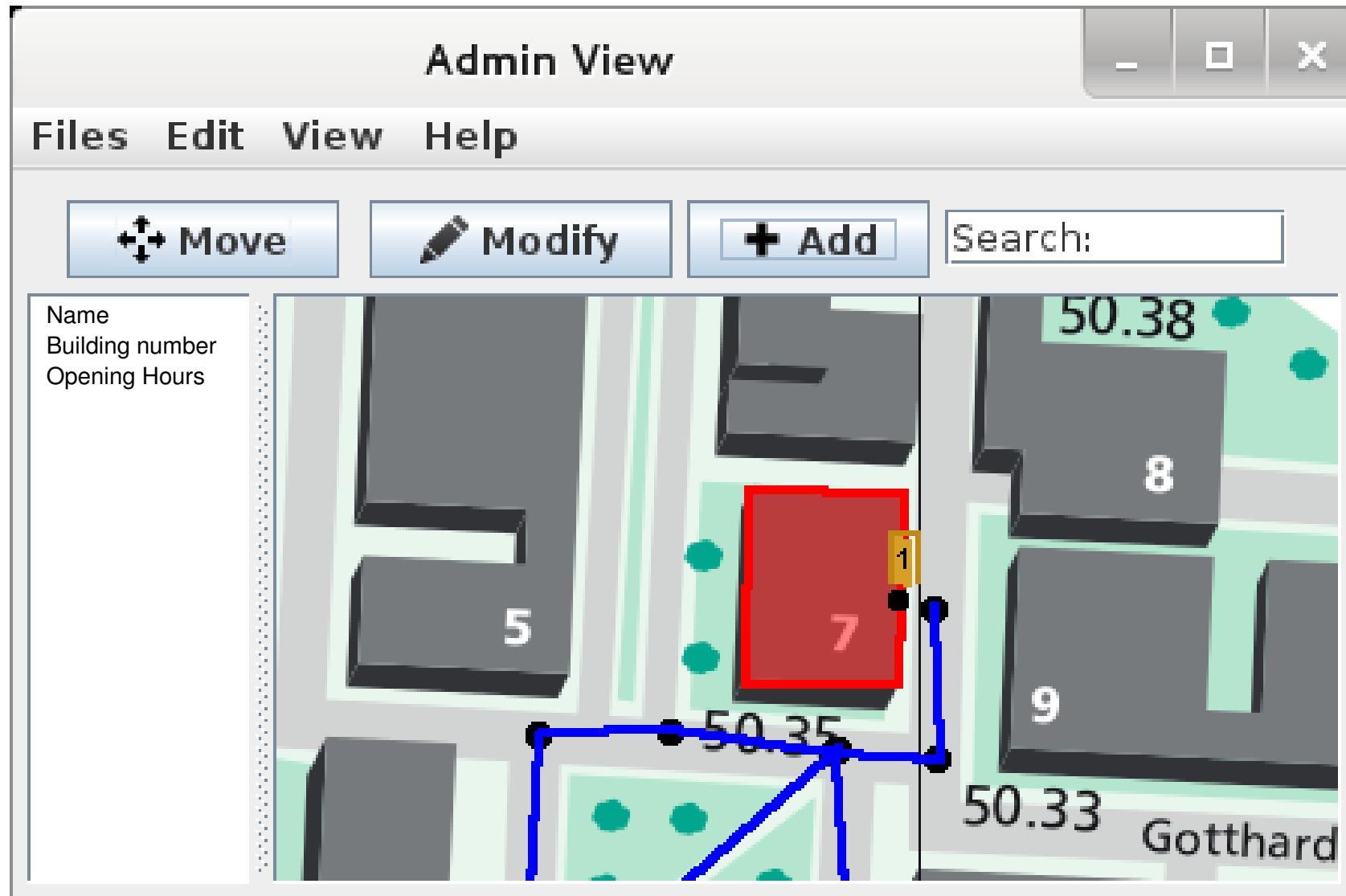
Select Building

# Admin Tool Scenario



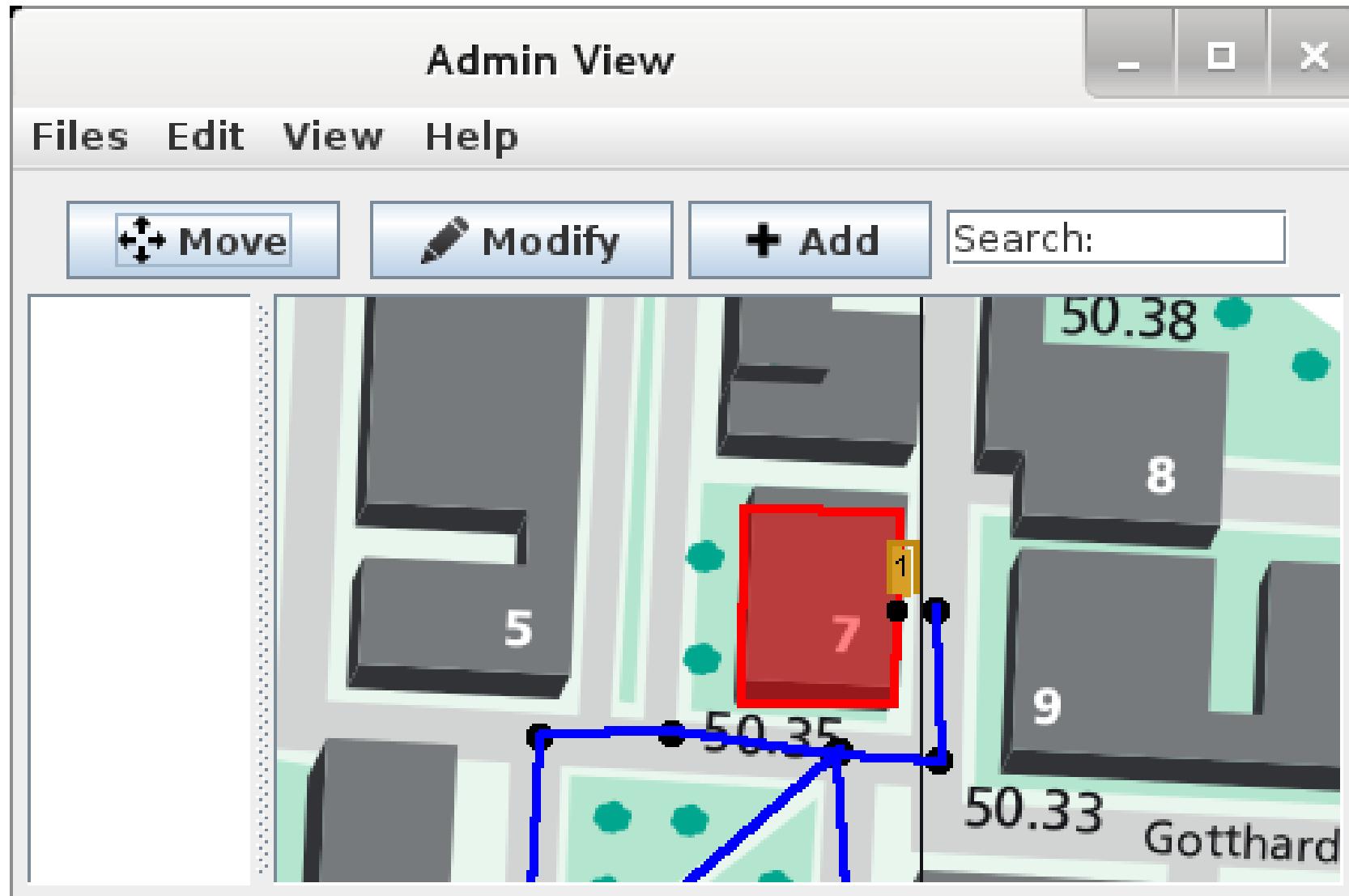
Add Entrance

# Admin Tool Scenario



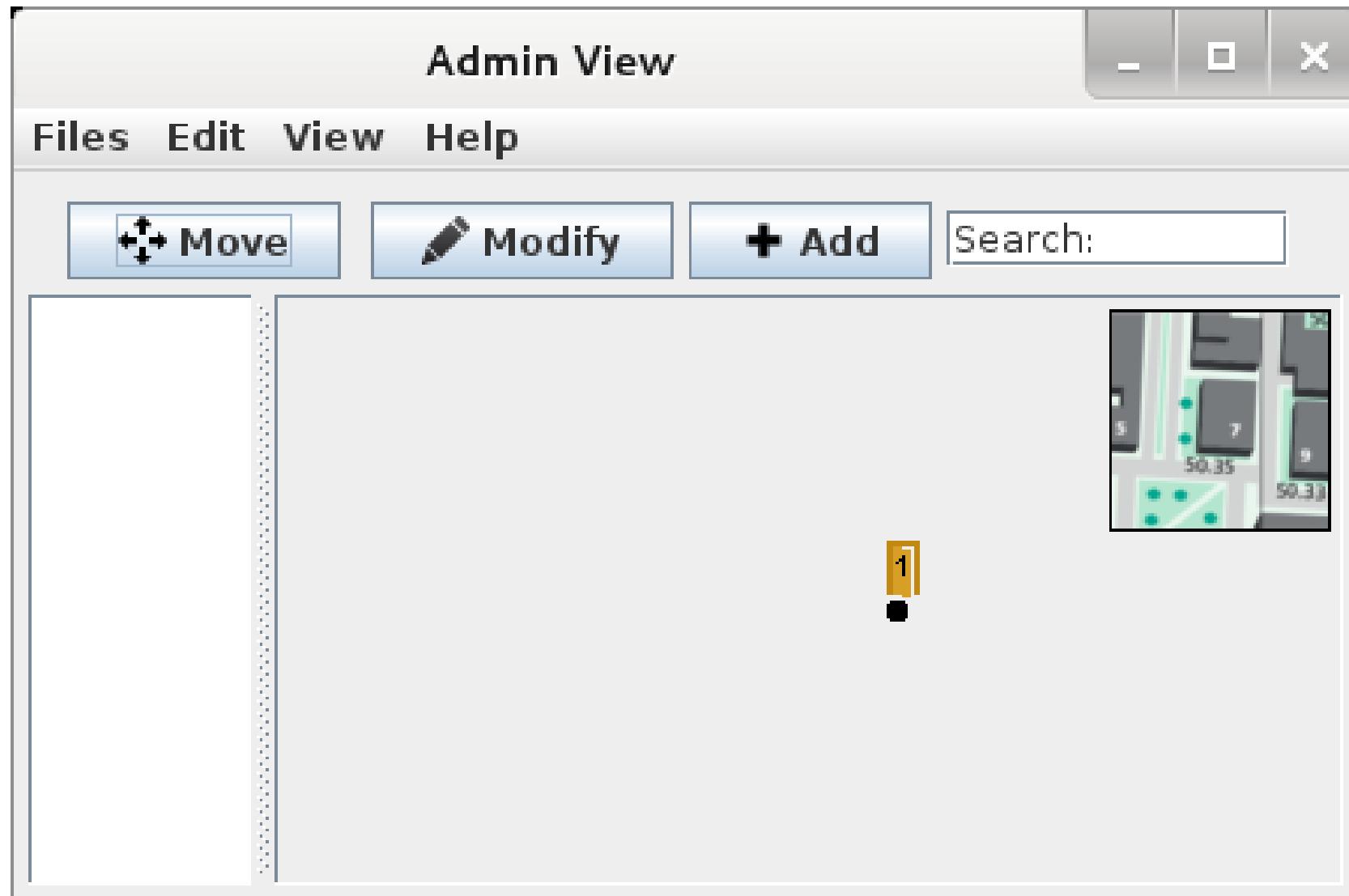
Add Entrance

# Admin Tool Scenario



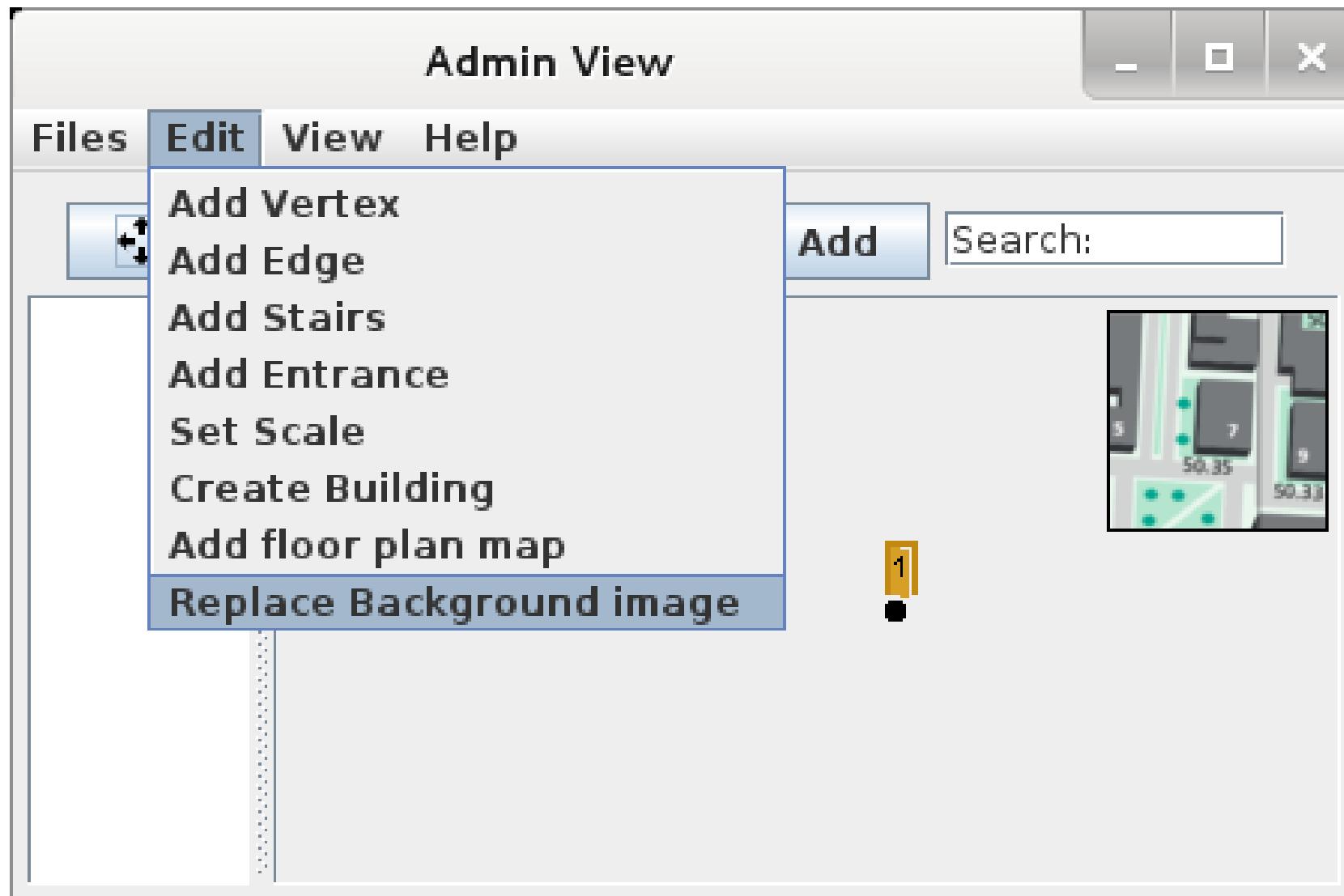
Move Building, Enter Building

# Admin Tool Scenario



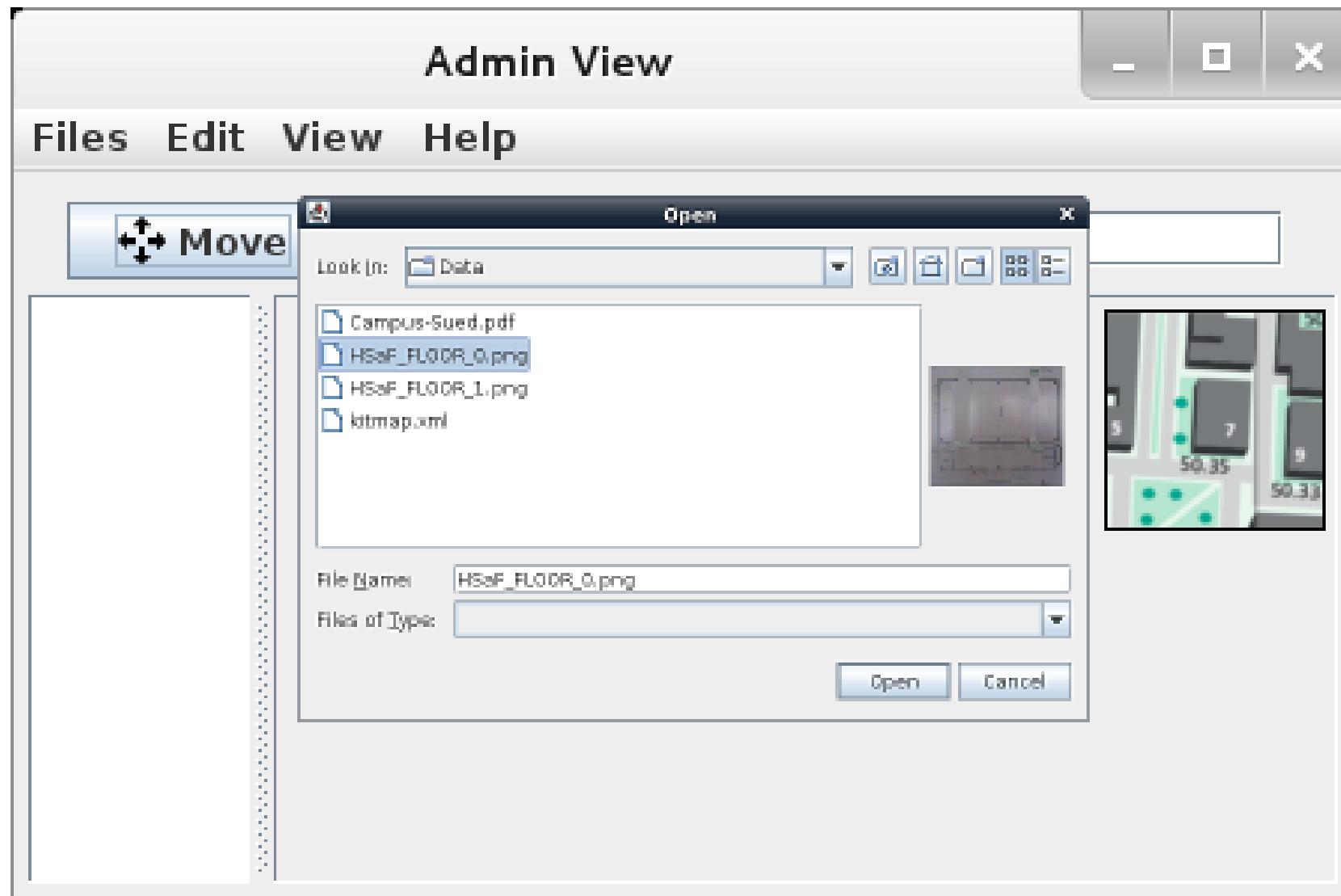
Enter Building

# Admin Tool Scenario



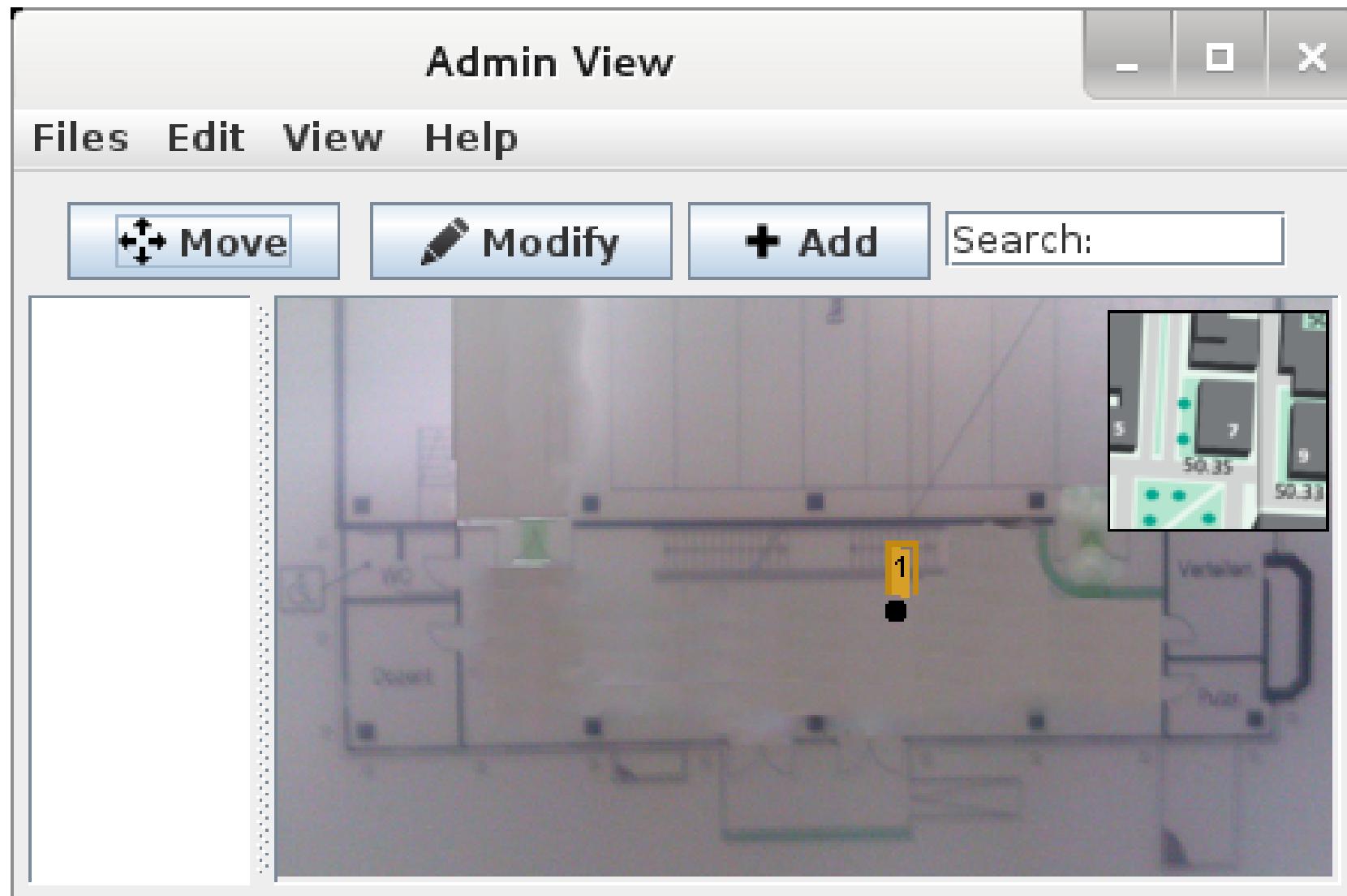
Replace Background Image

# Admin Tool Scenario



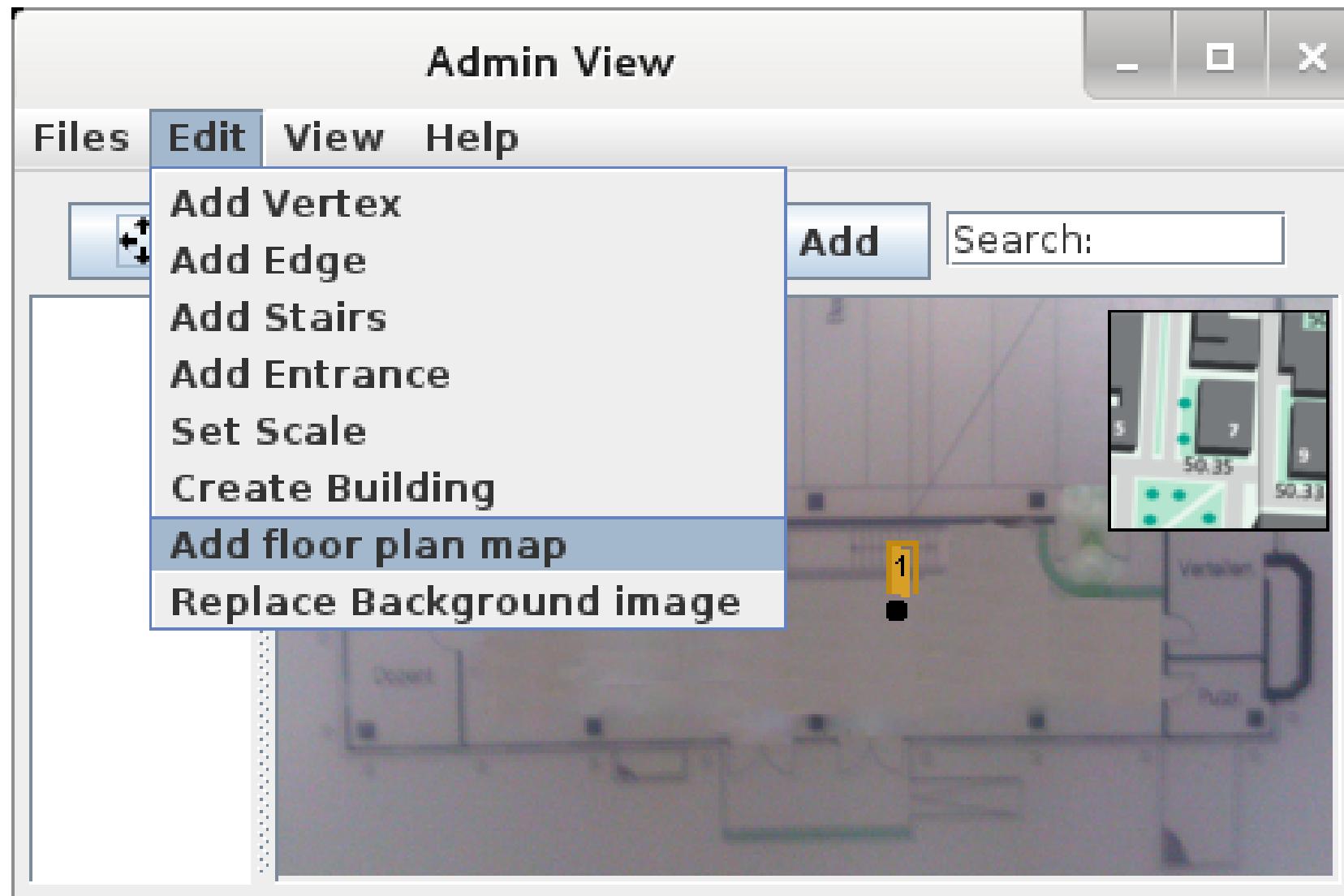
Replace Background Image

# Admin Tool Scenario



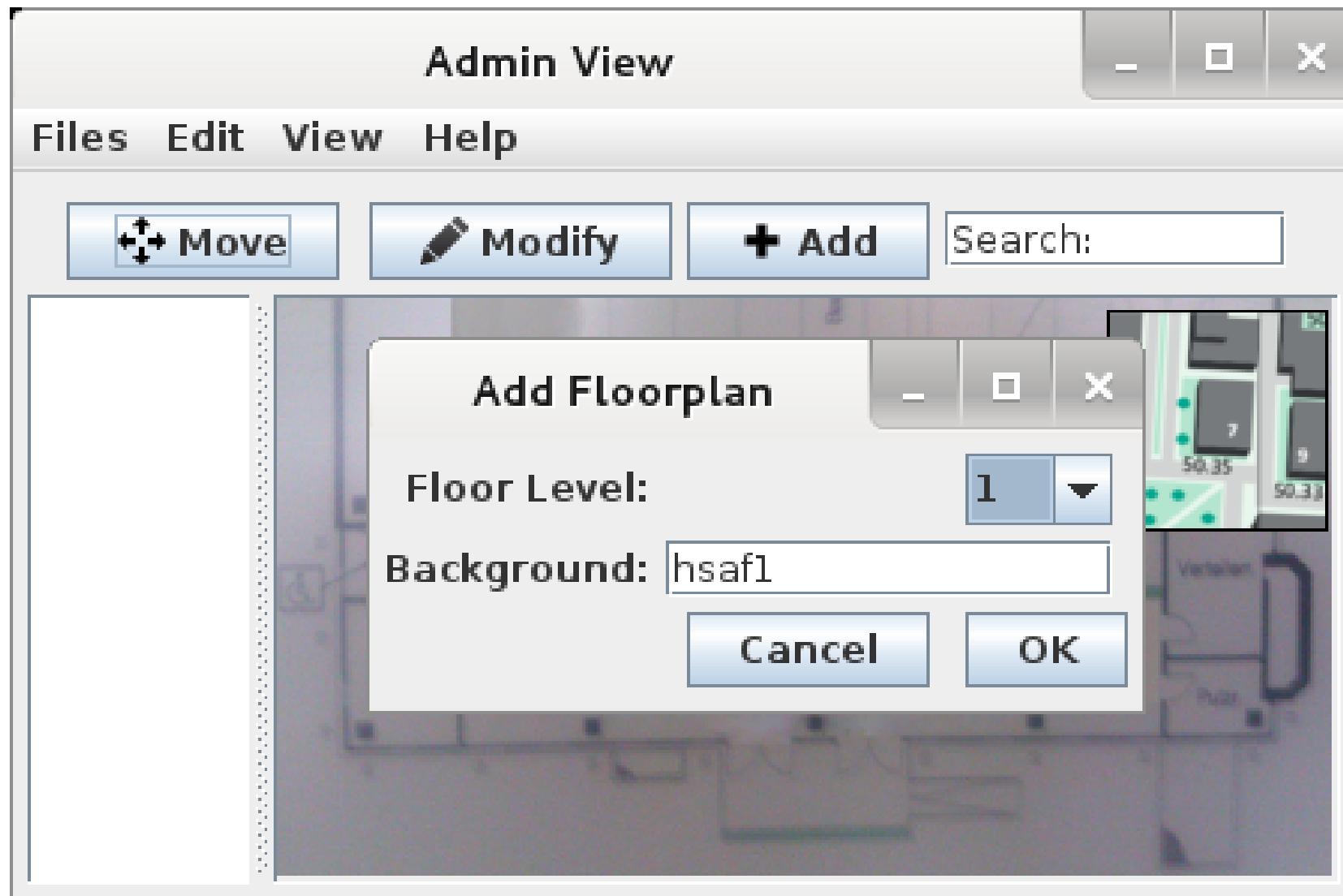
Replace Background Image

# Admin Tool Scenario



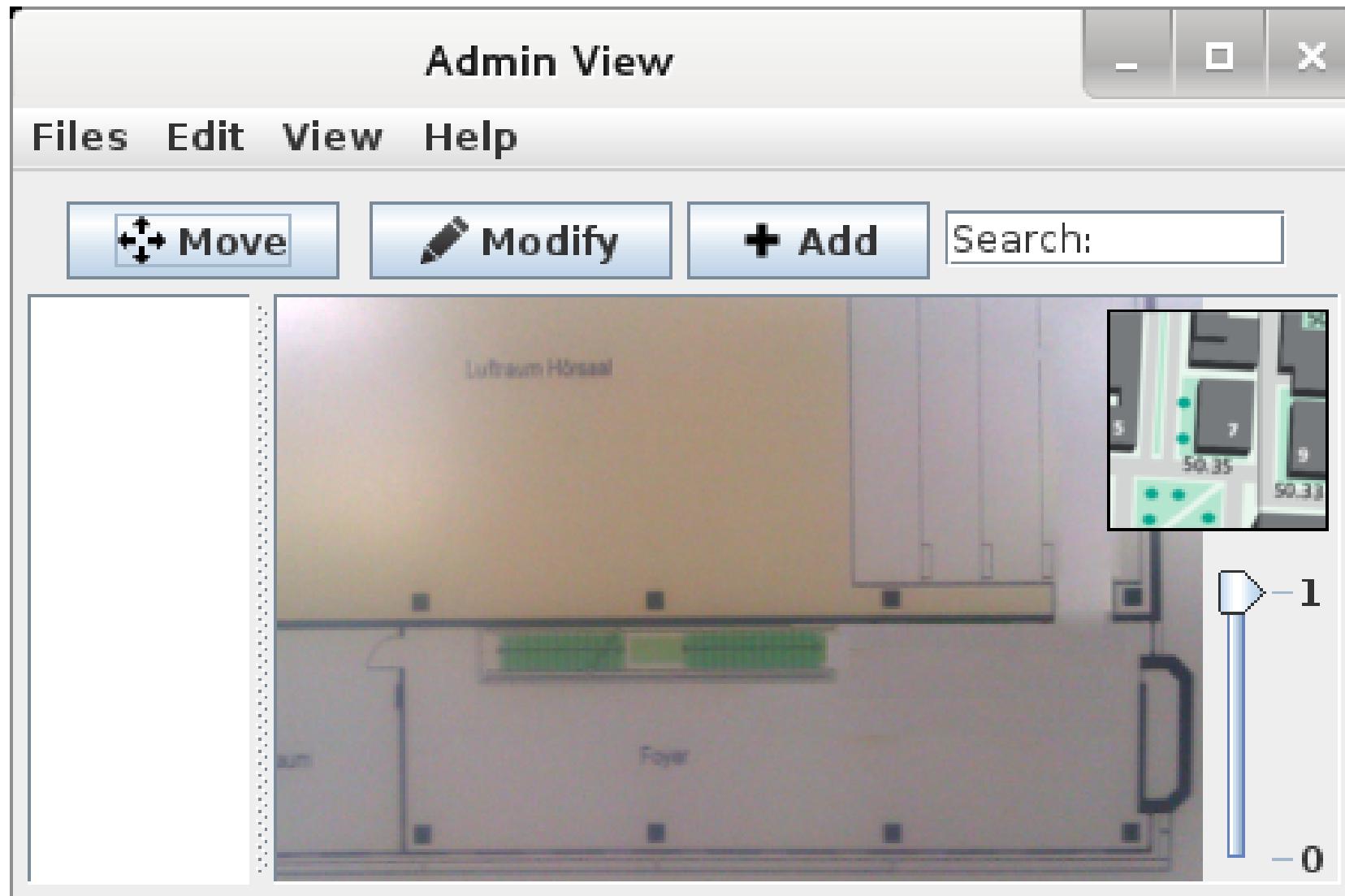
## Add Floor Plan

# Admin Tool Scenario



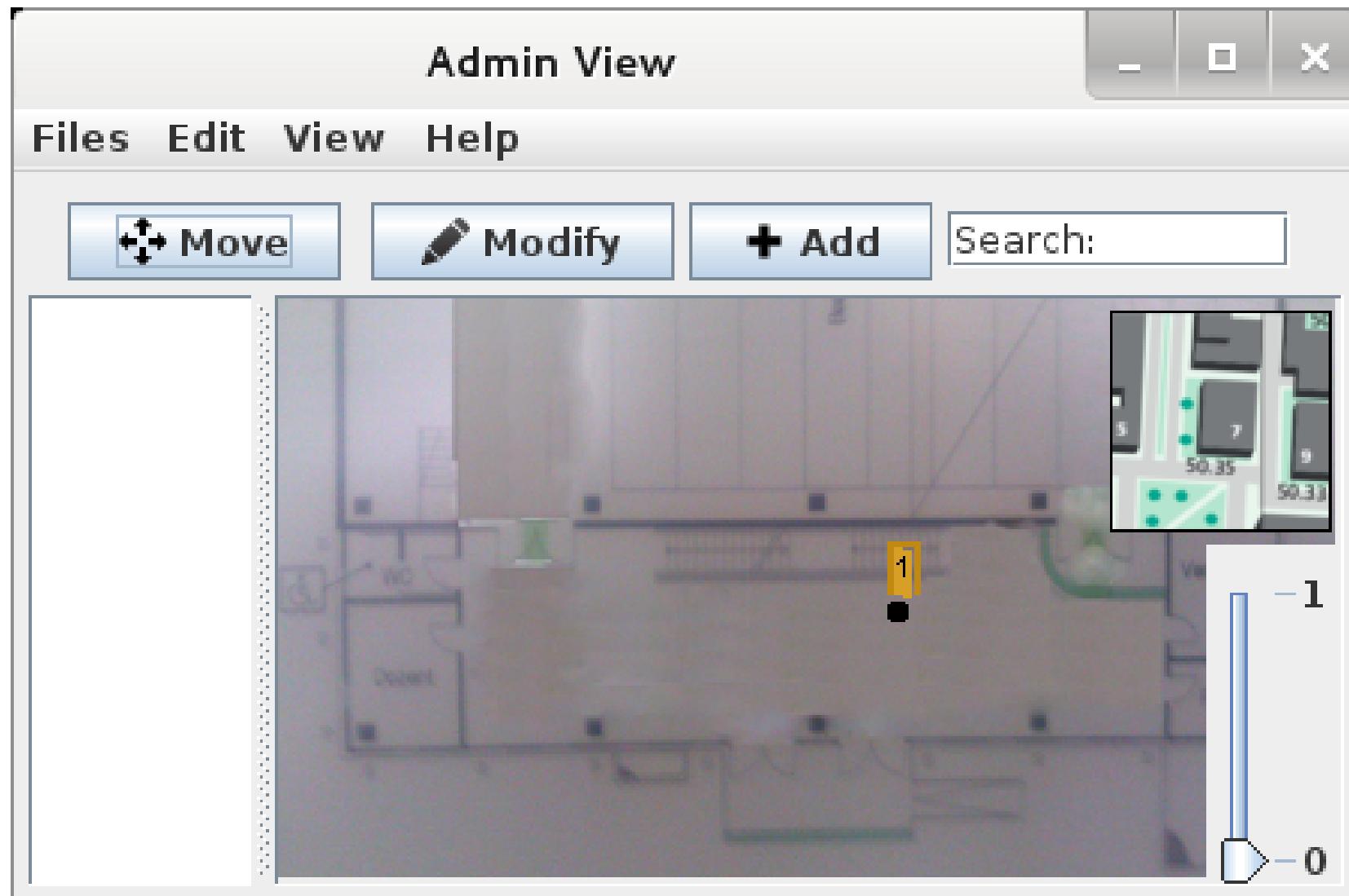
## Add Floor Plan

# Admin Tool Scenario



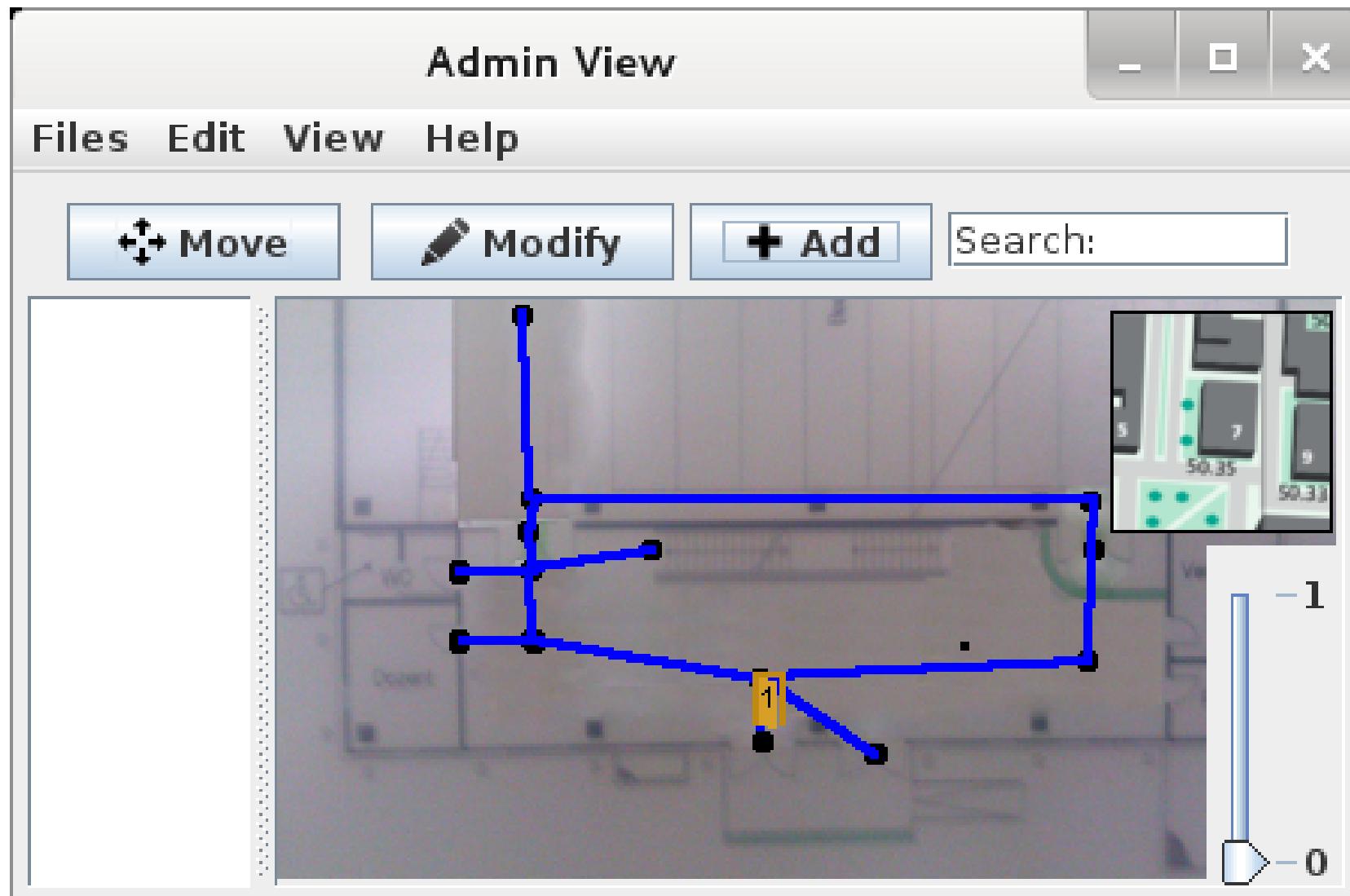
Add Floor Plan

# Admin Tool Scenario



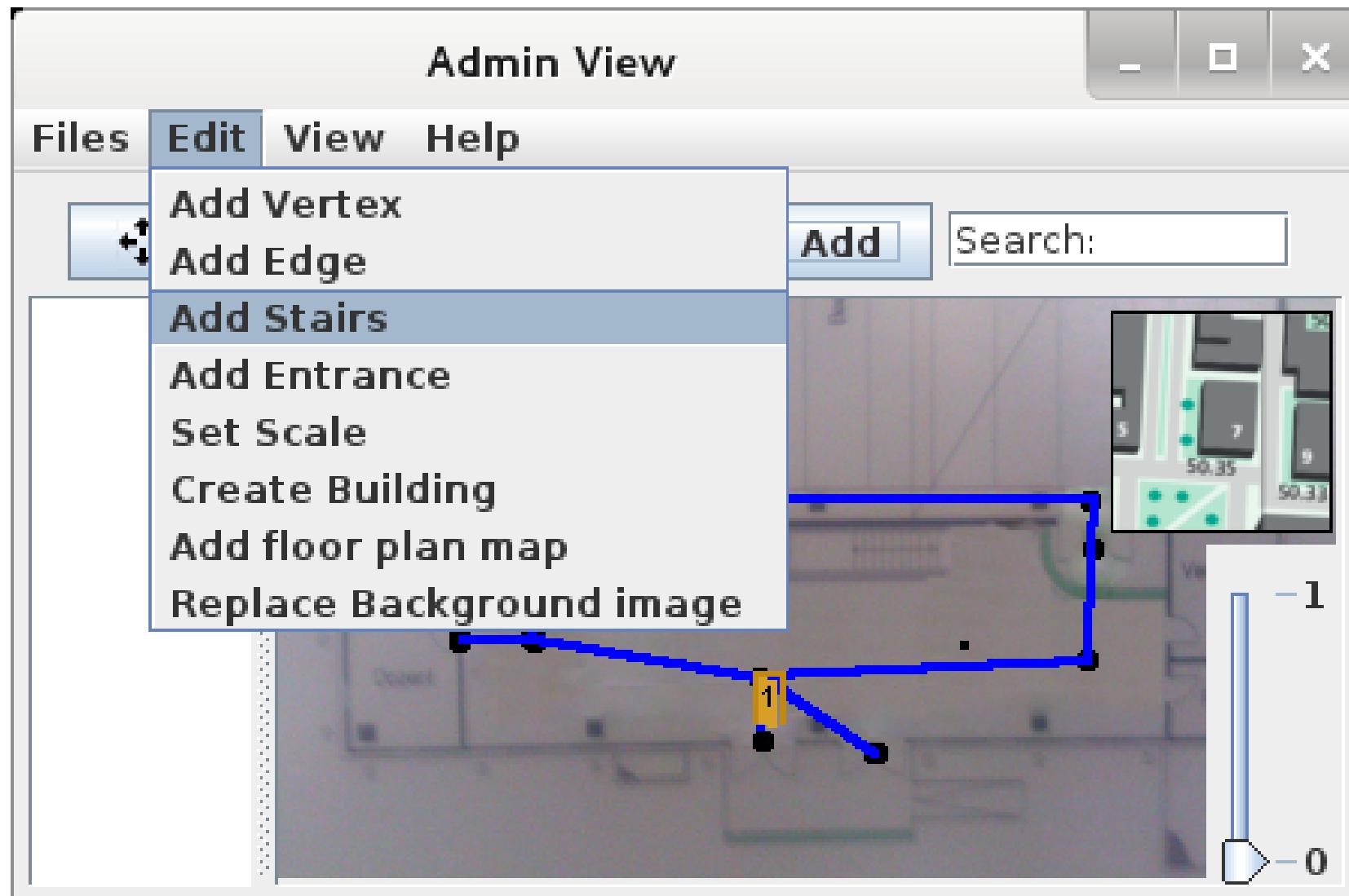
Switch Floor Plan Map

# Admin Tool Scenario



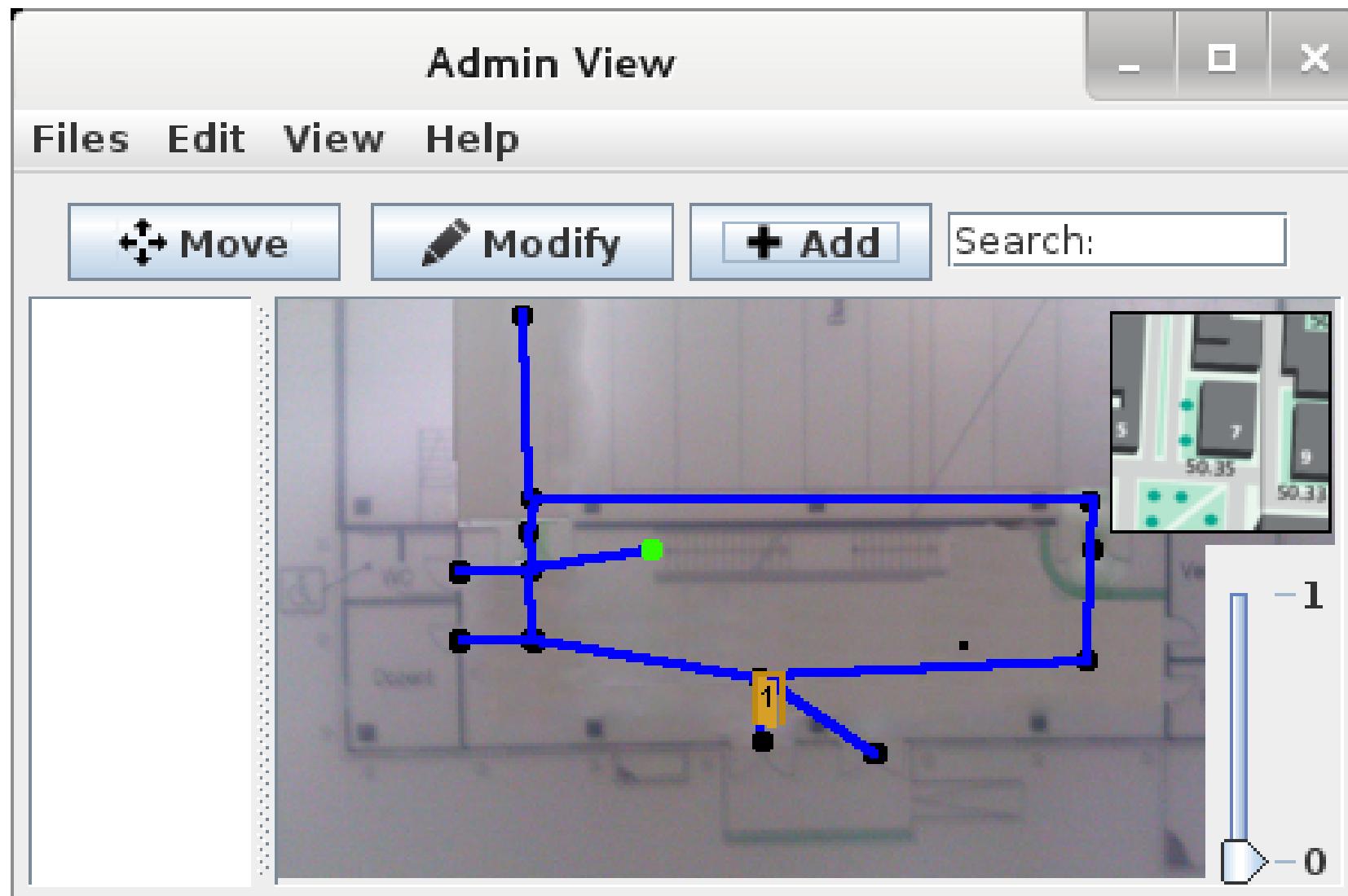
Create Graph

# Admin Tool Scenario



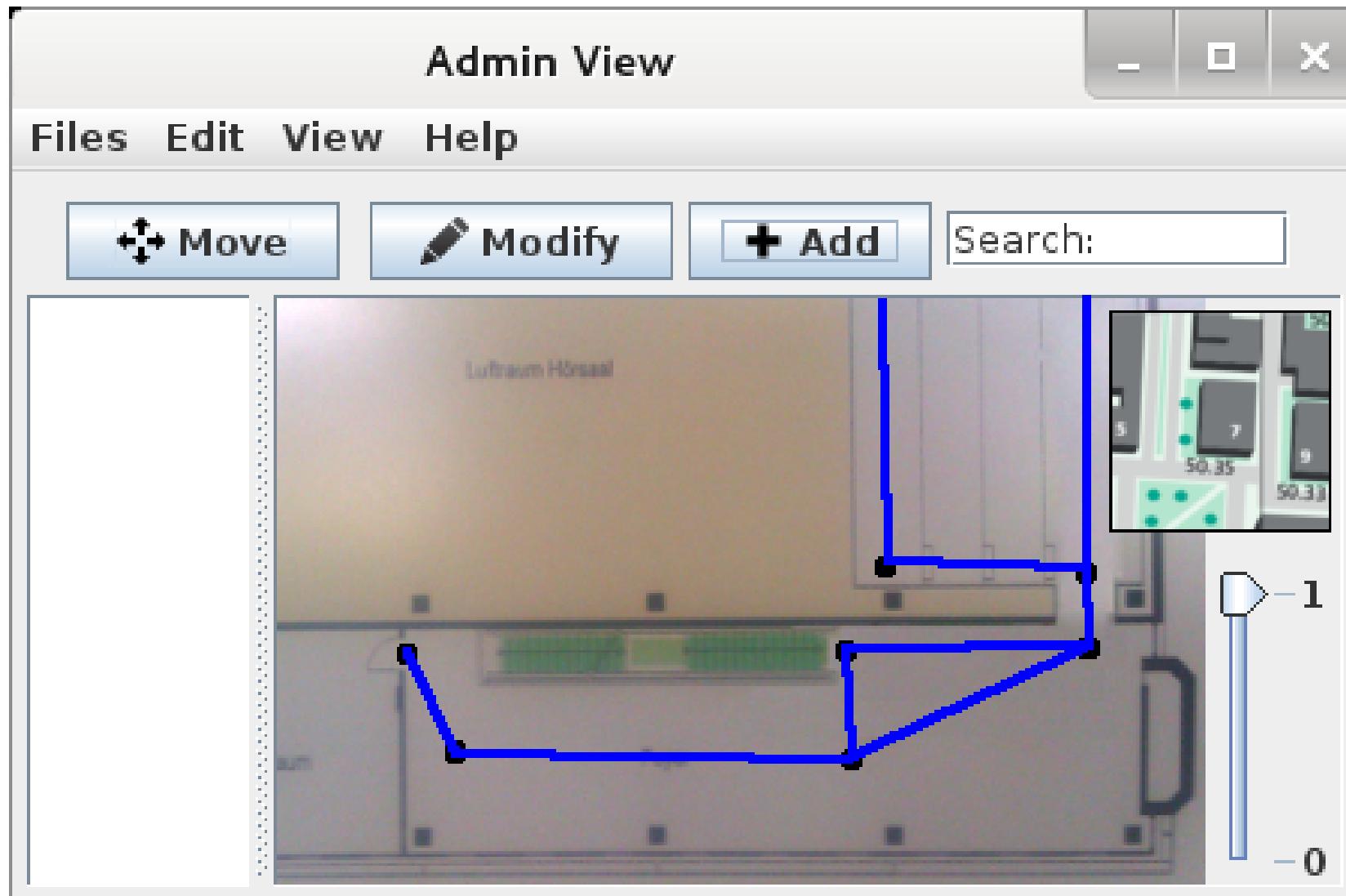
Add Stairs

# Admin Tool Scenario



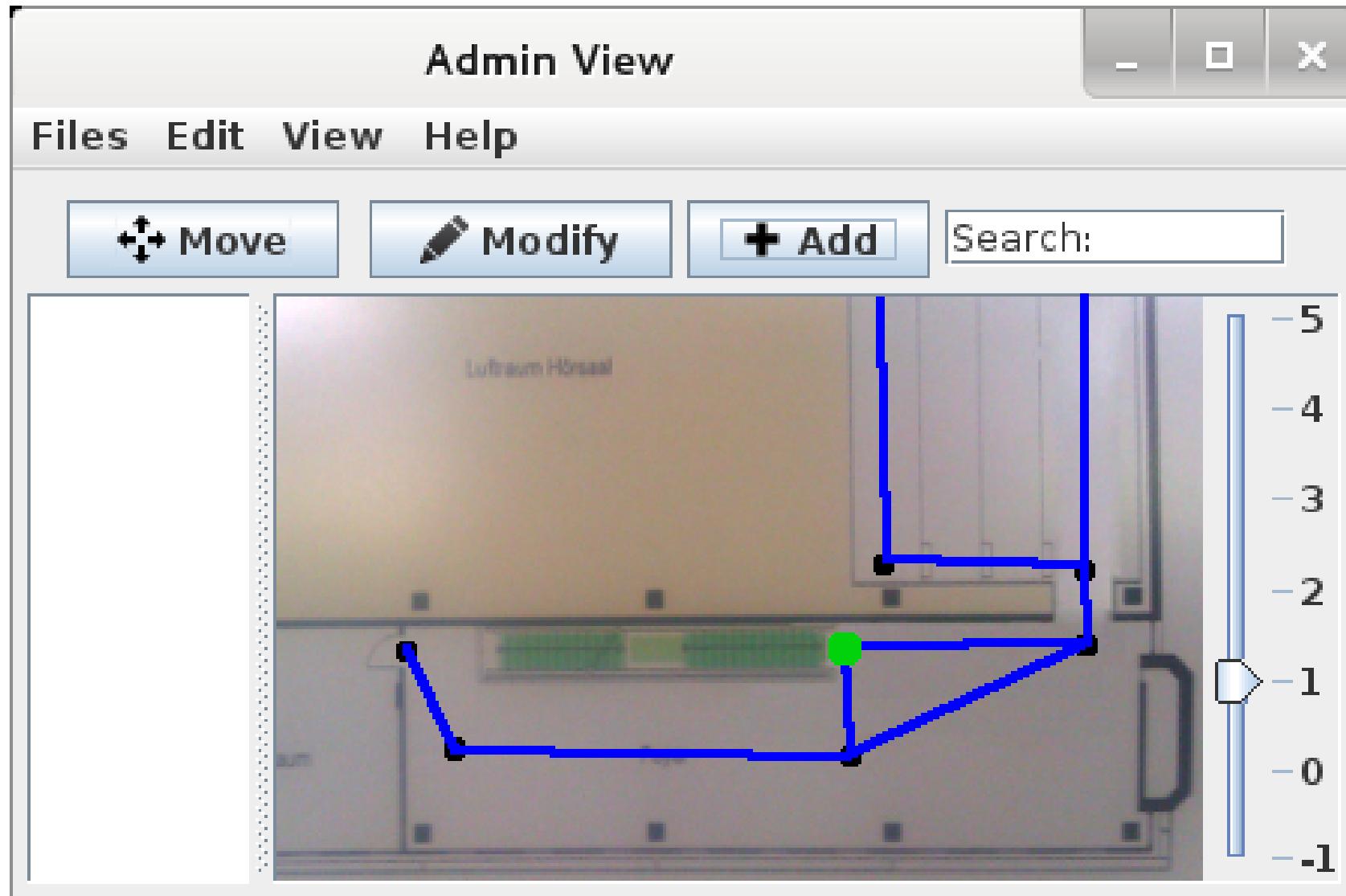
Add Stairs

# Admin Tool Scenario



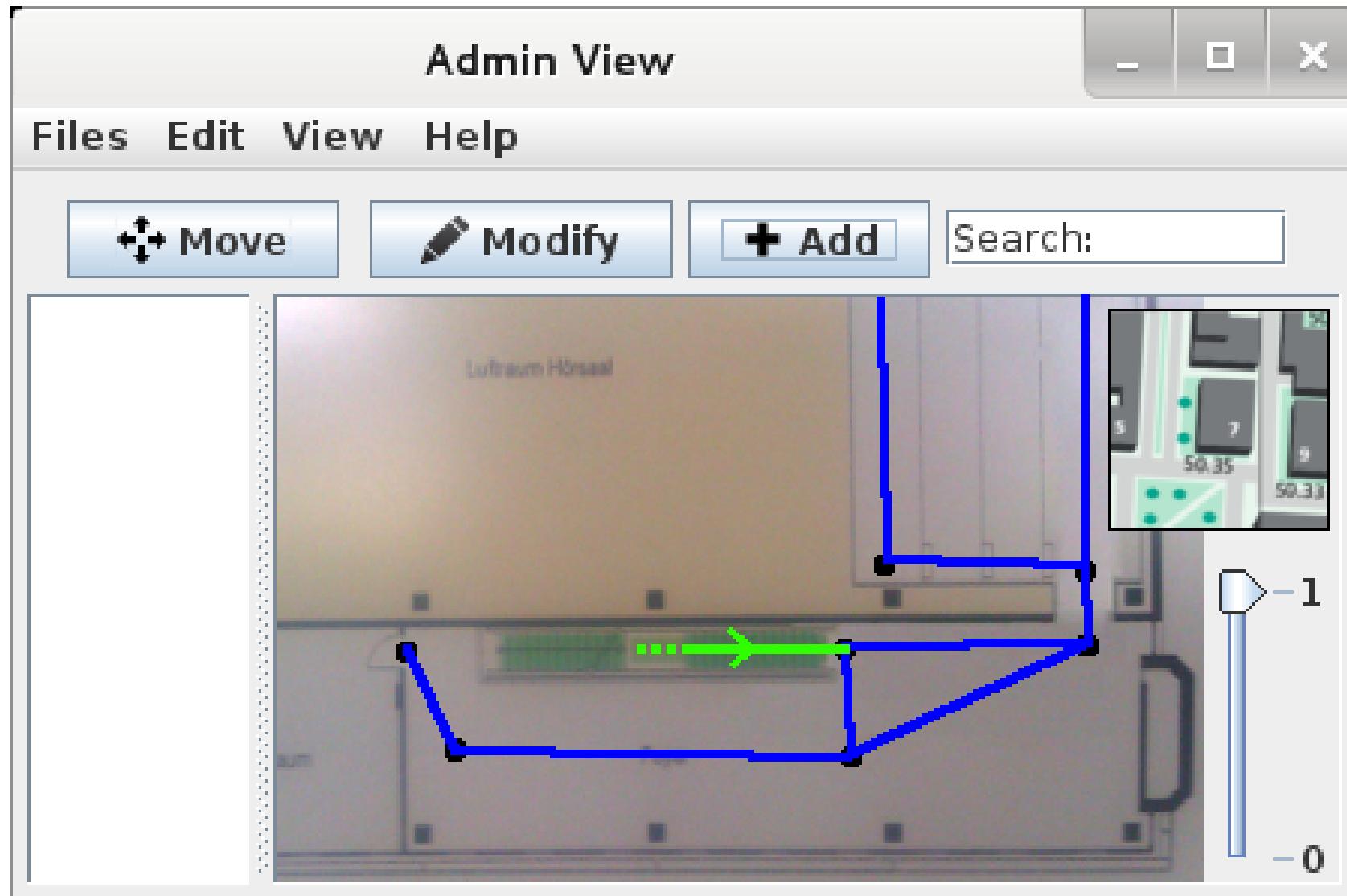
Add Stairs

# Admin Tool Scenario



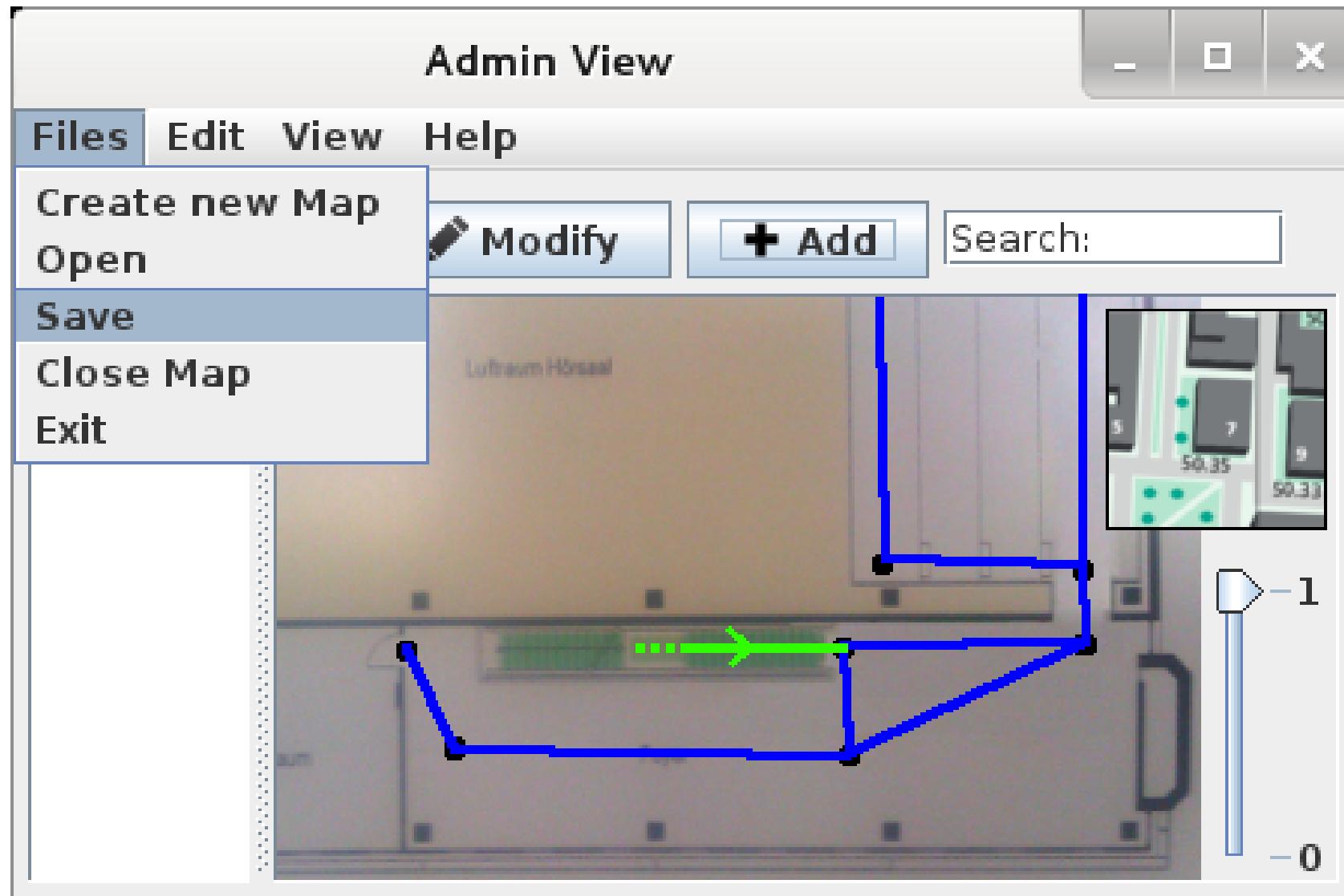
Add Stairs

# Admin Tool Scenario



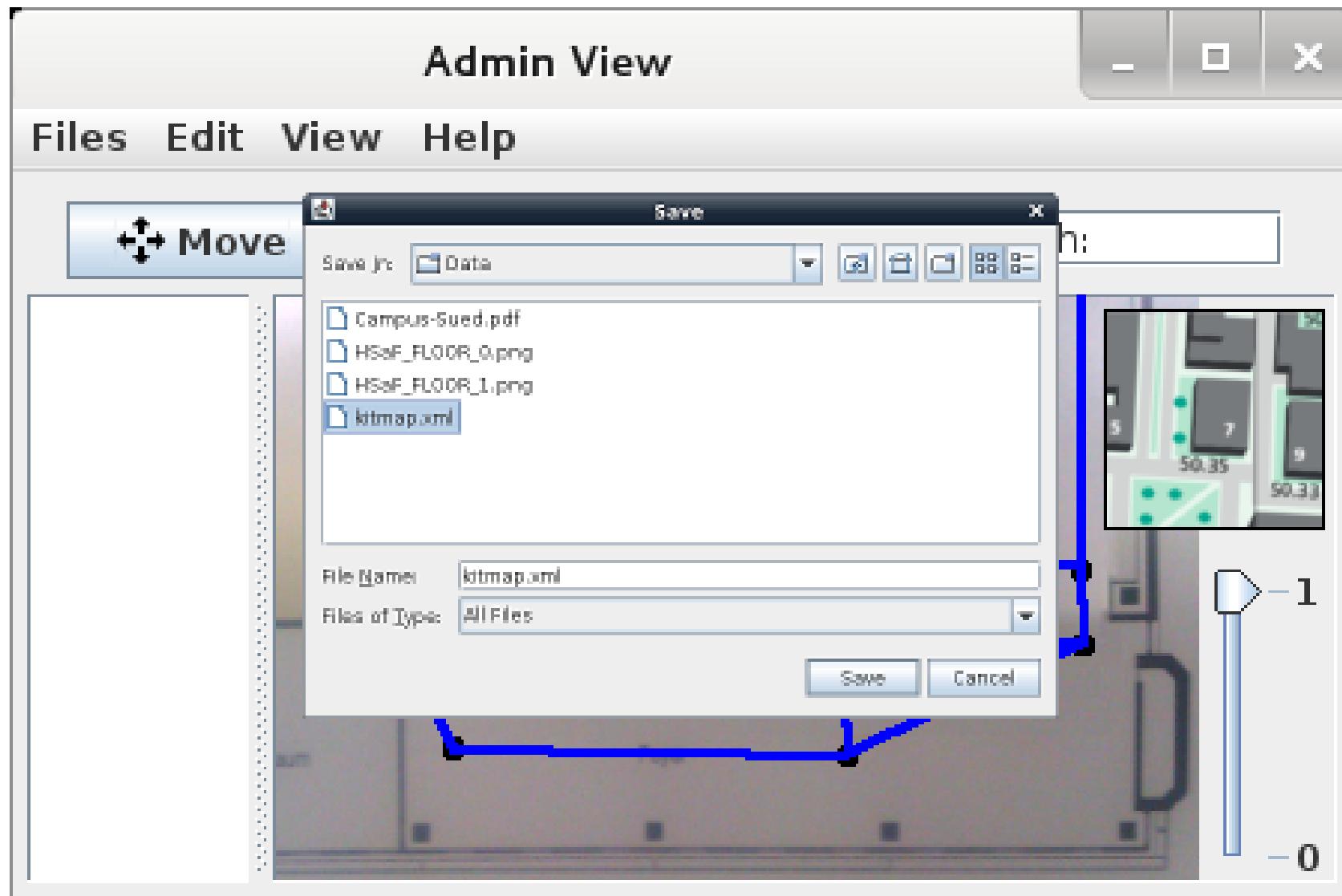
Add Stairs

# Admin Tool Scenario



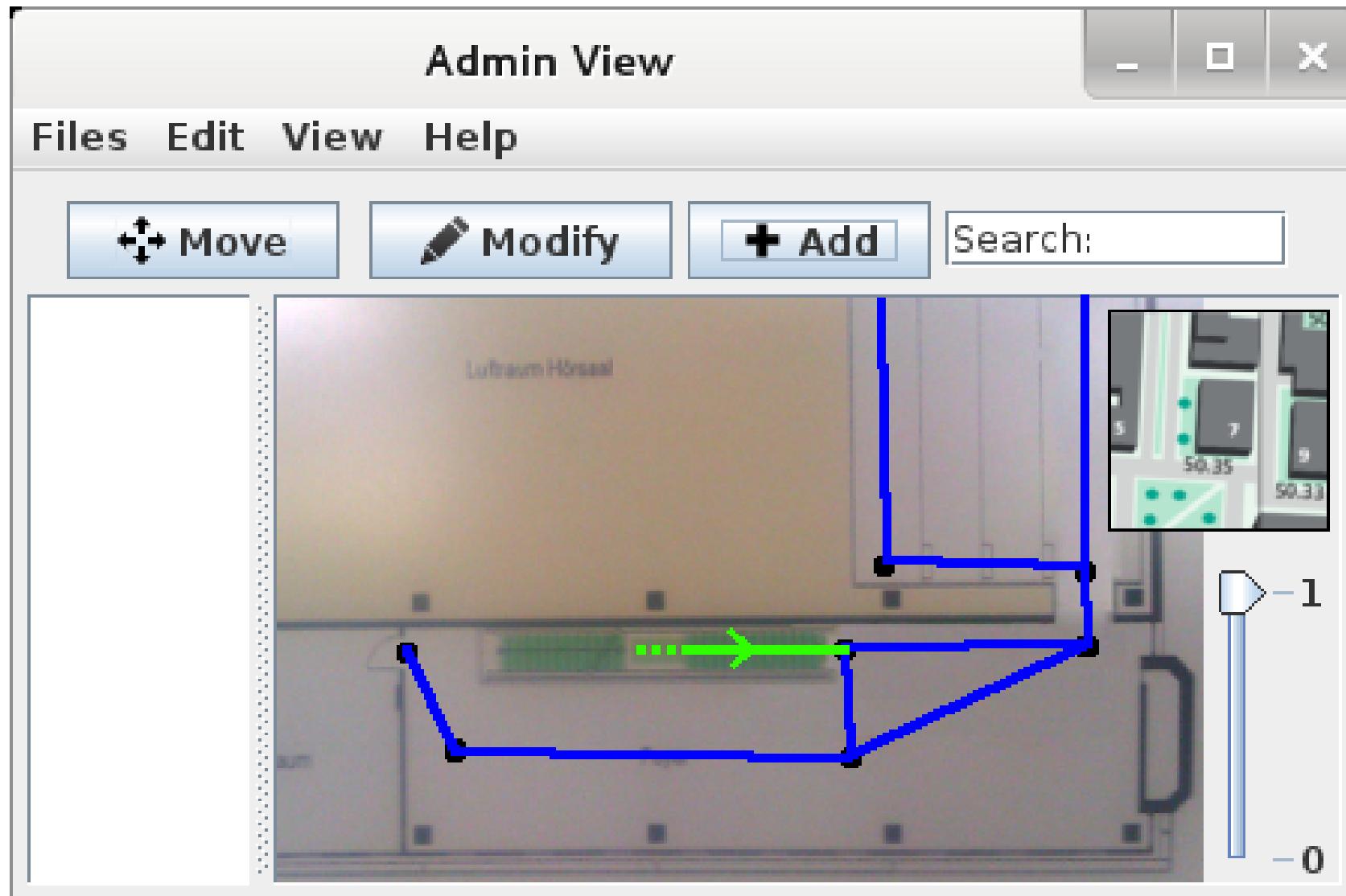
Save Map

# Admin Tool Scenario



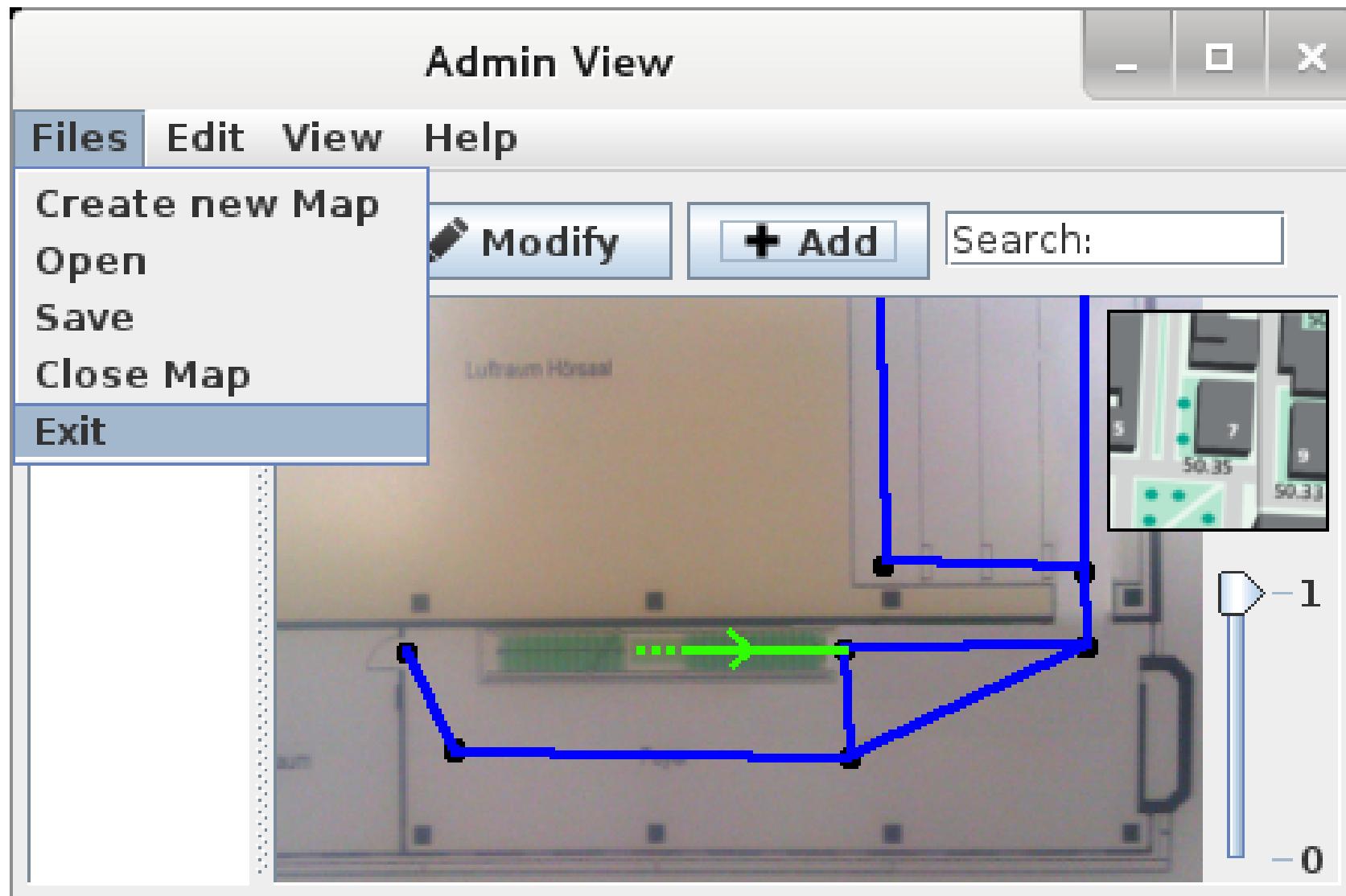
Save Map

# Admin Tool Scenario



Save Map

# Admin Tool Scenario



Exit Program

# Facultative Criteria

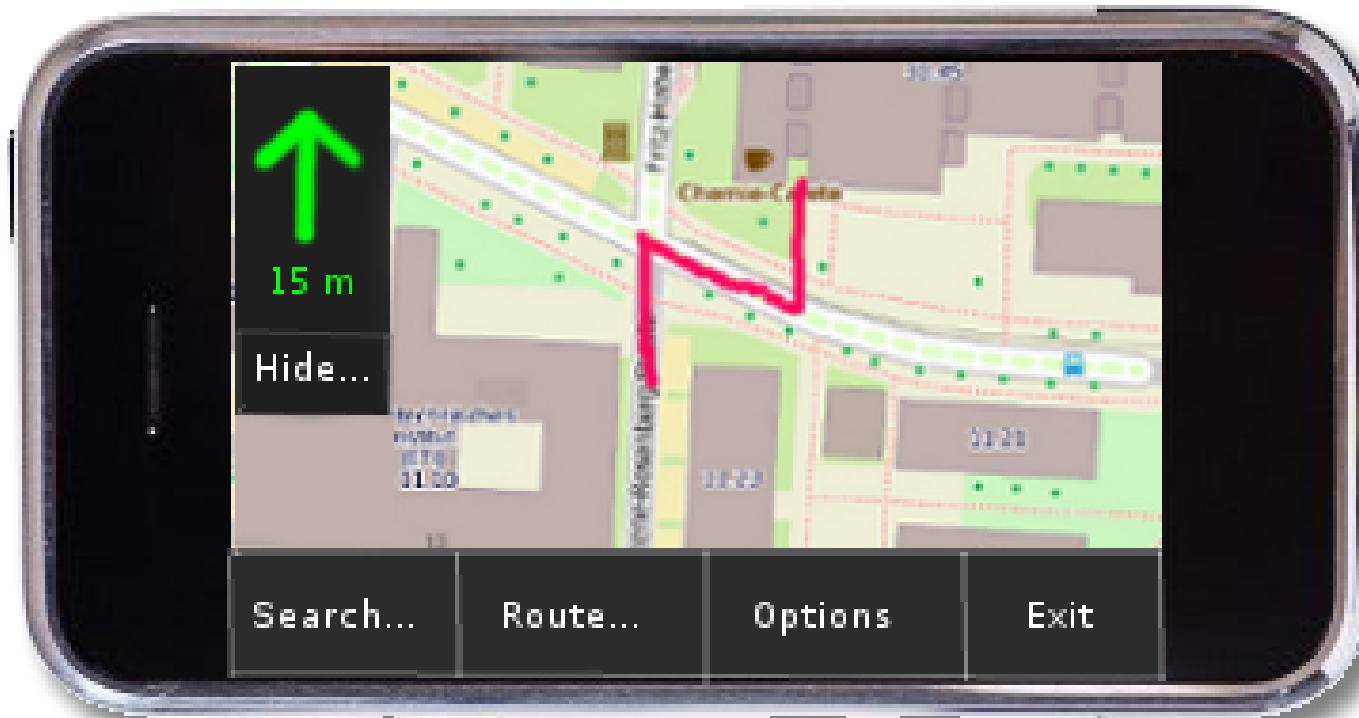
# This is Stanislav Prutzco



# Suddenly...



# Android App



# Spellchecking

Höhrzal

Hörsaal am Fasanengarten

Gaede Hörsaal

Gerthsen Hörsaal

Neue Chemie Hörsaal



# Java Applet

Subject: Erasmus event for parents

Body Text sans-serif



Hi Mom,

the bus will drop you off at AKK and from there, you will have to go to building 50.34, SR 301.  
You can view the route here, just click on this link:

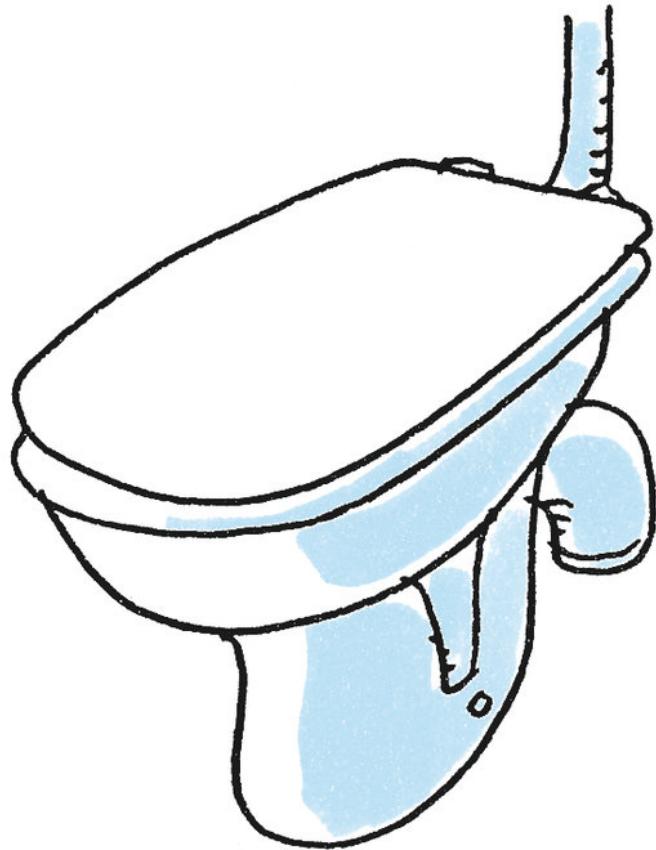
<http://www.campuslocationandnavigation.com/875gfewdS>

Best,  
Sally.

# Routing for Special Groups



# Search Nearest Location



Property editor

Name	Restroom
Type	Boolean
Default Value	FALSE

Cancel      OK

Configure Filter

Title: Nearest Restroom in 50.42

Building	is	50.42	
and	Restroom	is	TRUE

+

Cancel      OK

# Excluded Criteria

# No Routing for Cars



# No Server based Application



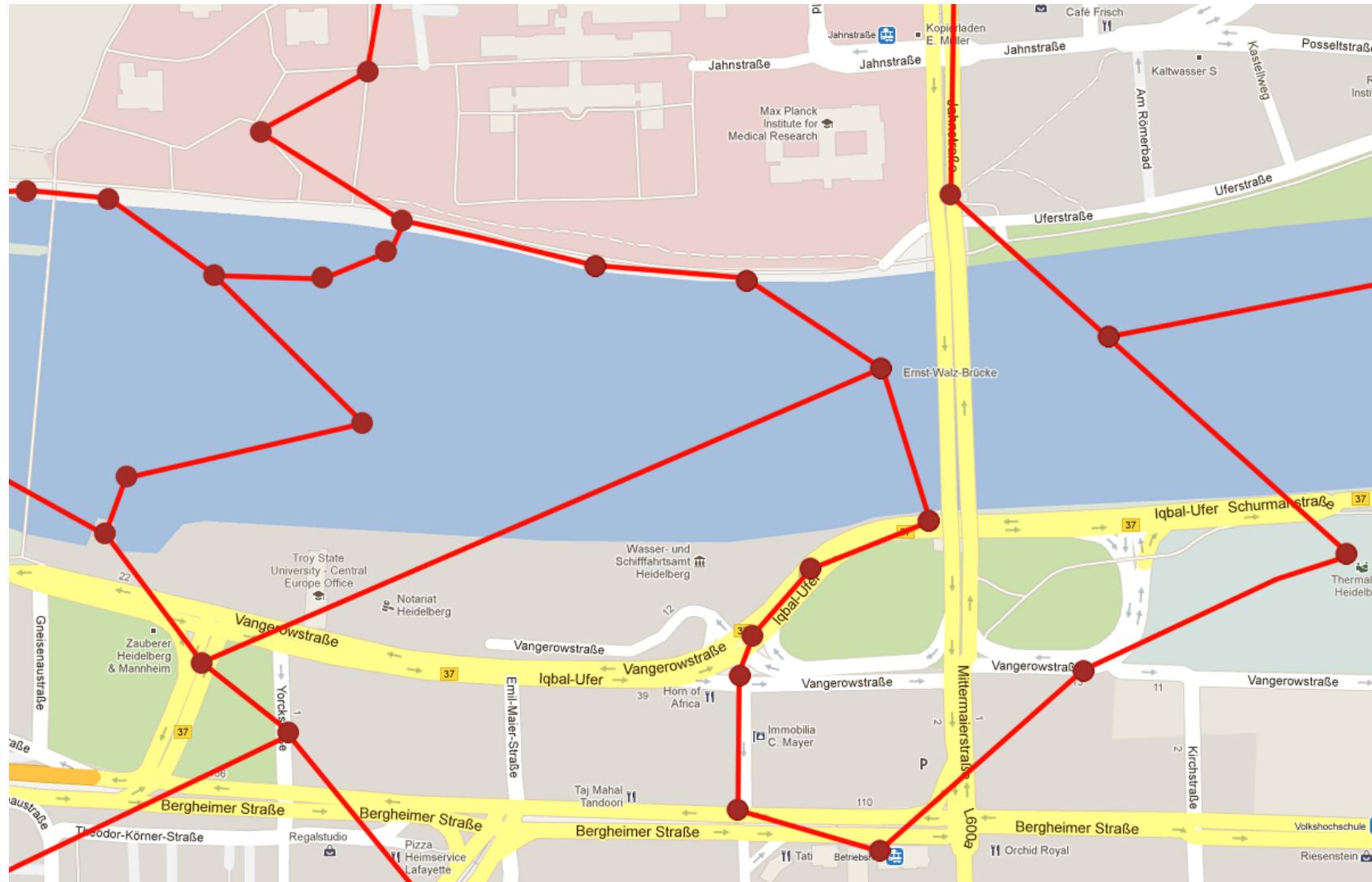
# No Speech Input



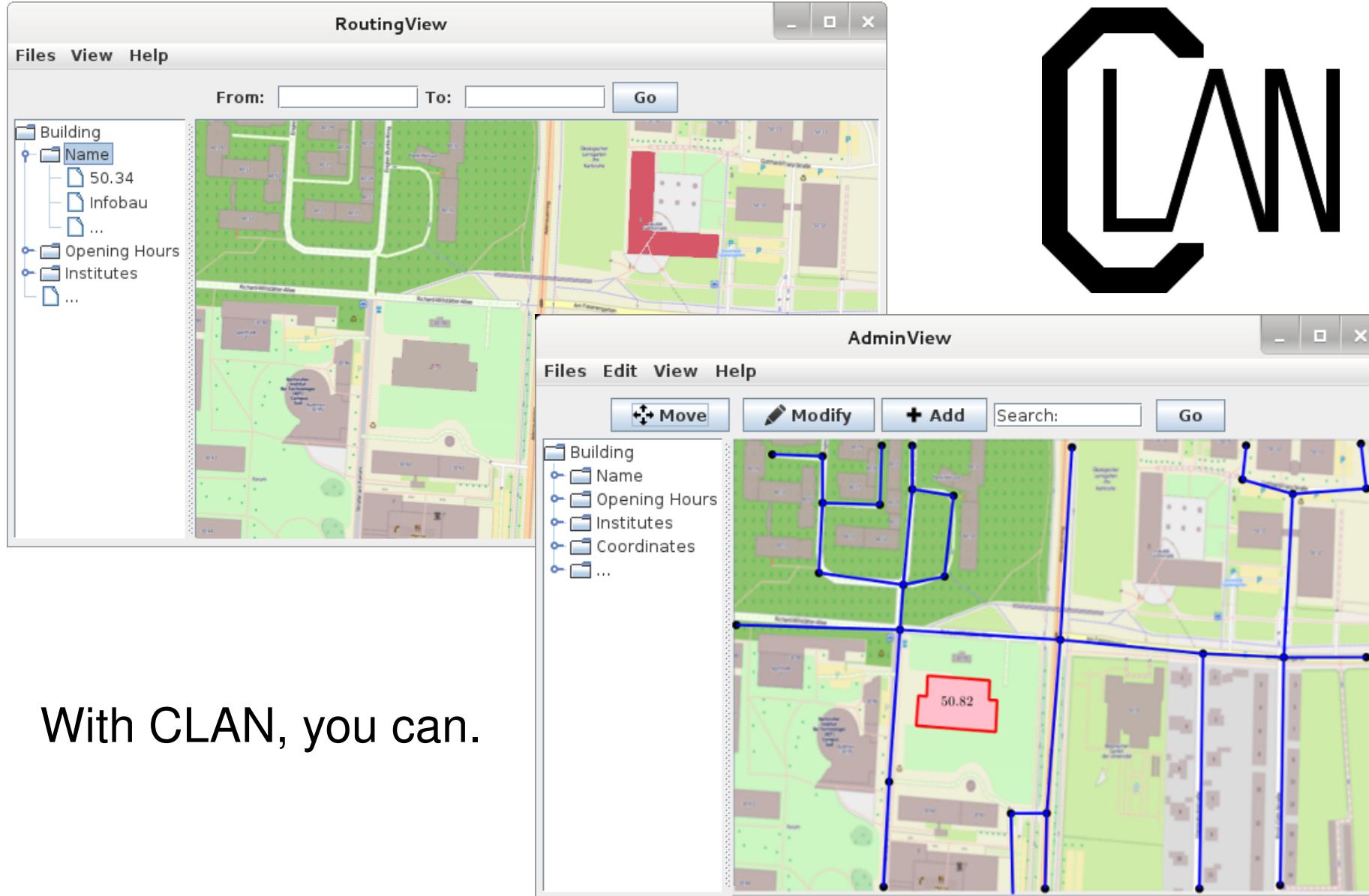
# No Public Transport



# No Automatical Map Creation



# Questions?



The image displays two windows of the CLAN software. The top window, titled "RoutingView", shows a map of a campus area with buildings and roads. It includes a sidebar with file navigation options like "Building", "Name", "50.34", "Infobau", etc., and a search bar with "From:" and "To:" fields. The bottom window, titled "AdminView", also shows a similar map but with a blue line drawn over it, representing a path or route. It has buttons for "Move", "Modify", and "Add", along with a sidebar for managing building data.

With CLAN, you can.