CSE 308: Software Engineering

ELECTION REDISTRICTING APPLICATION

Sequence Diagrams: Final Version

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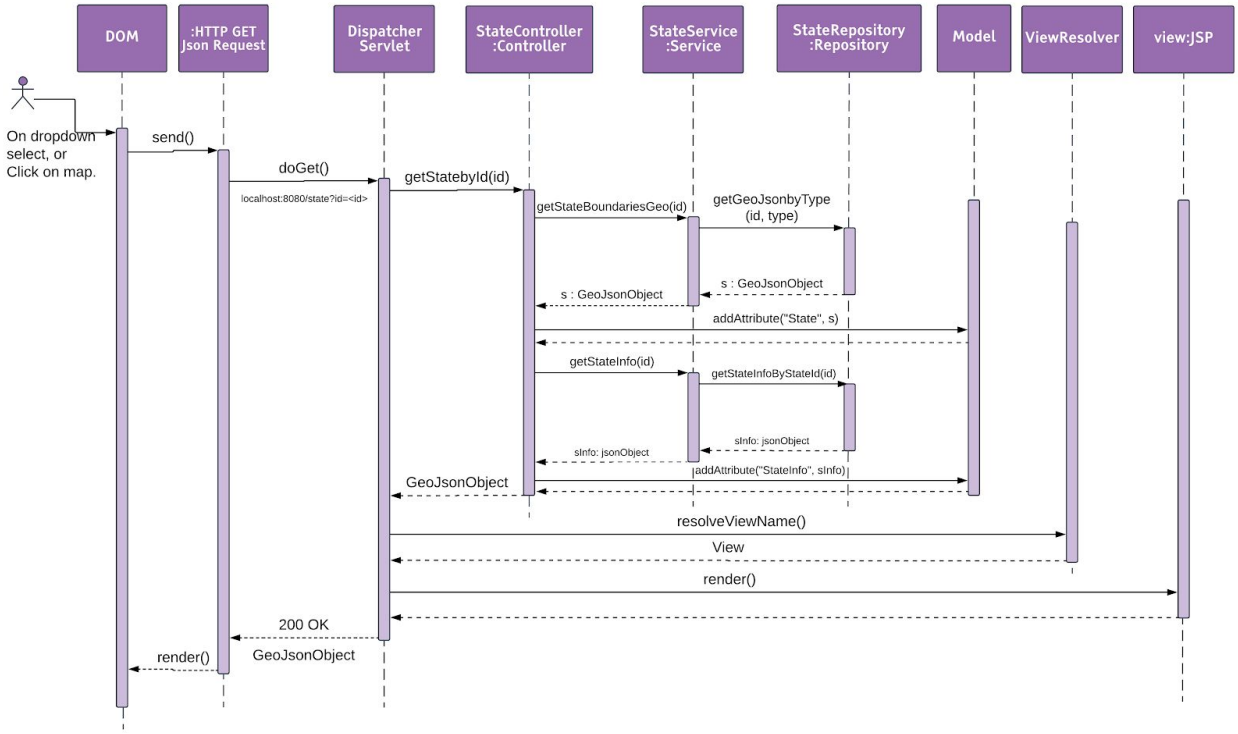
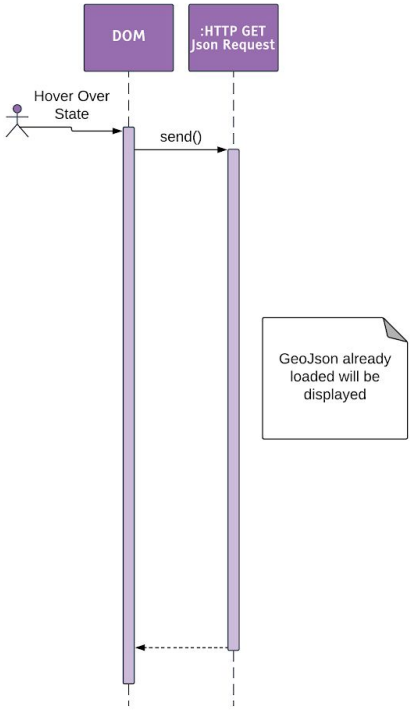
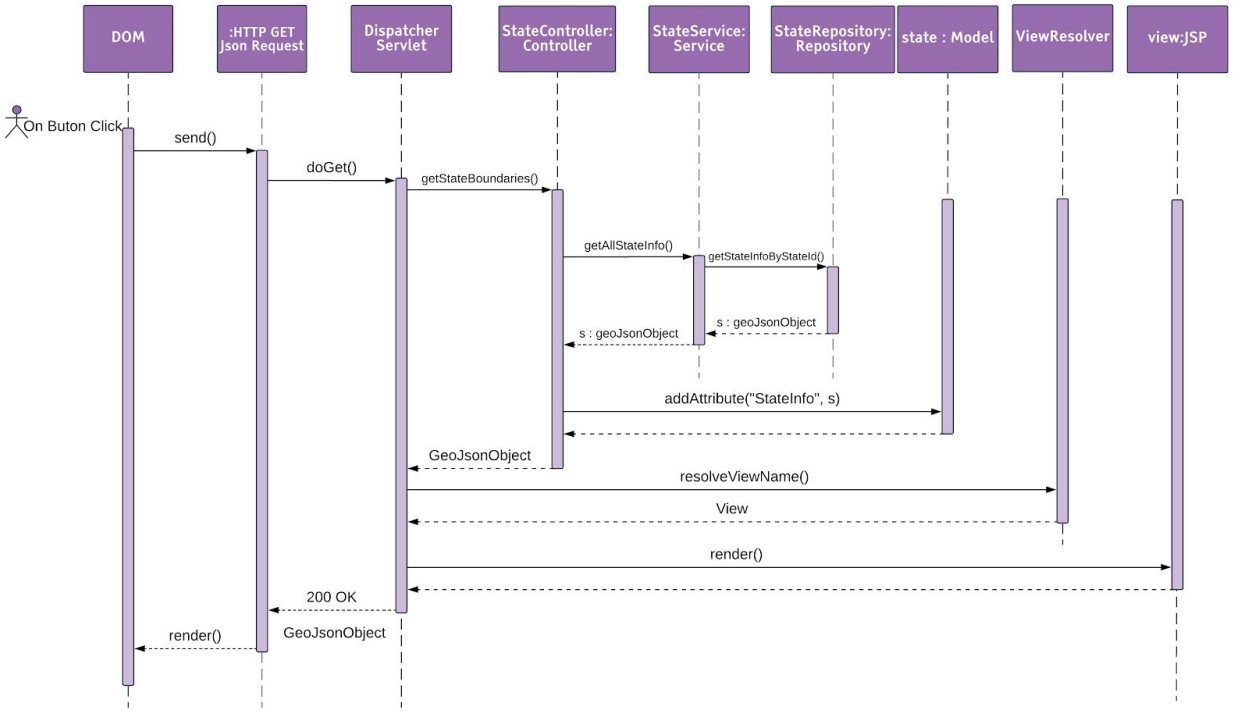
Rahul Agasthya



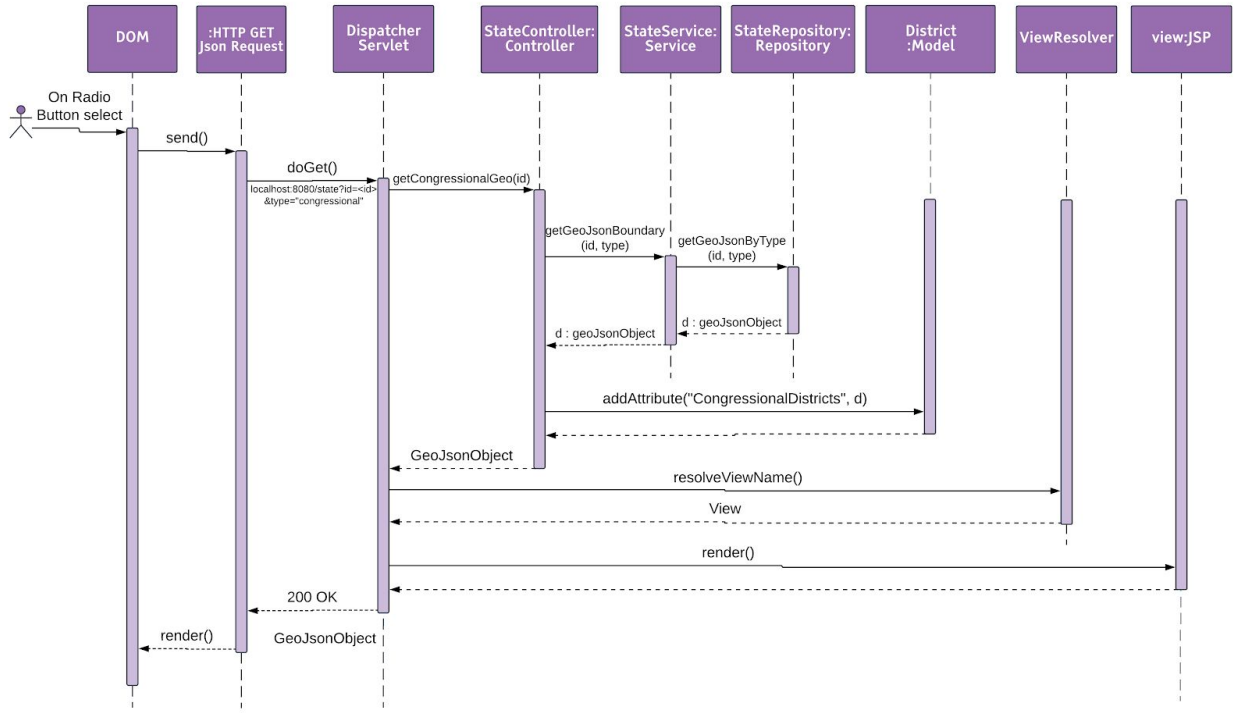
Home Page



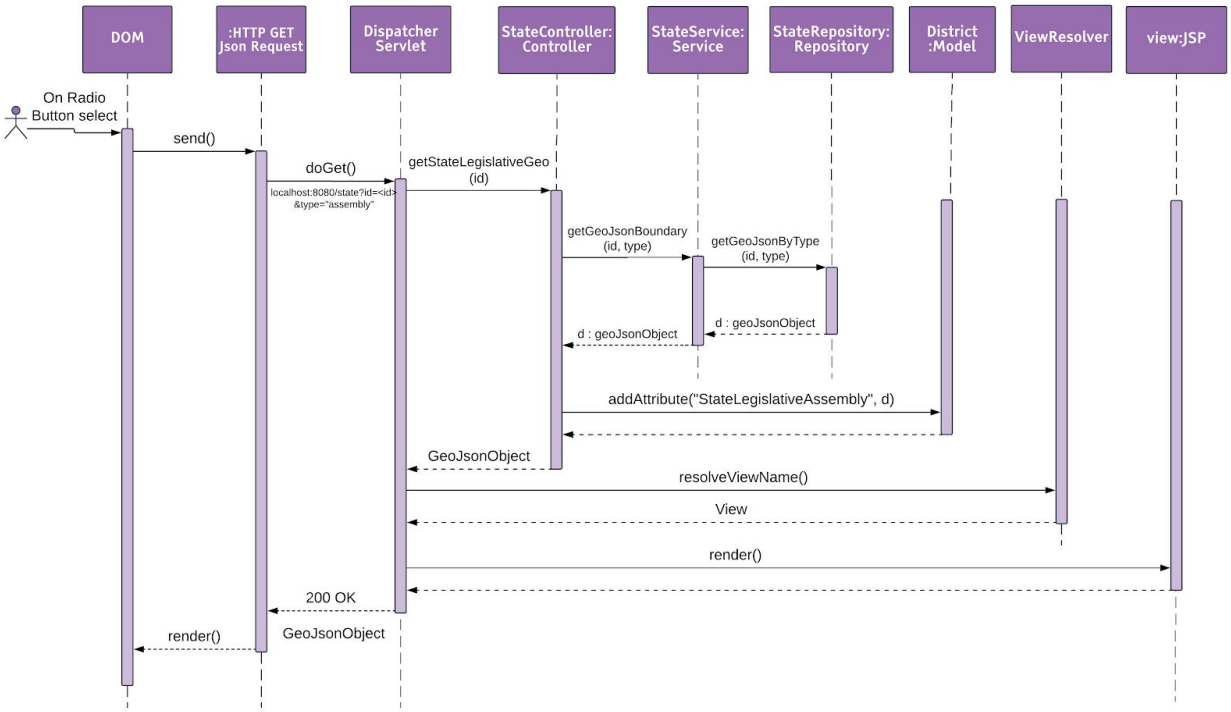
Hover over State



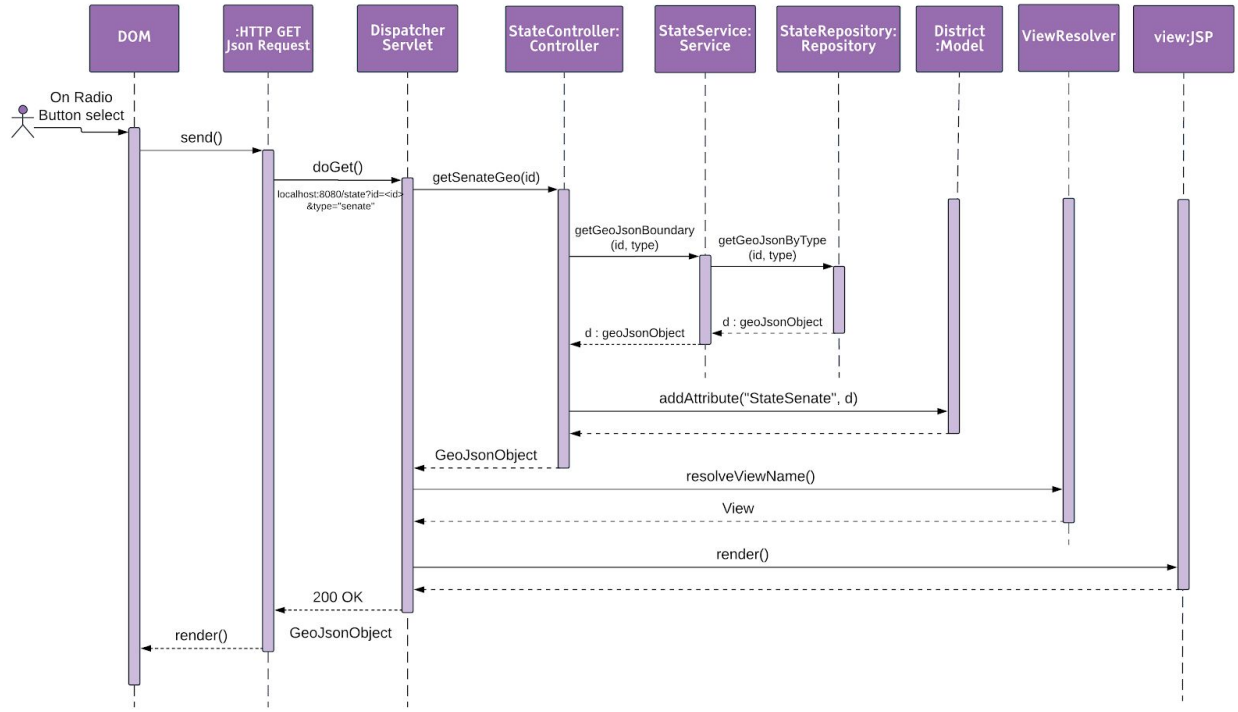
Select State



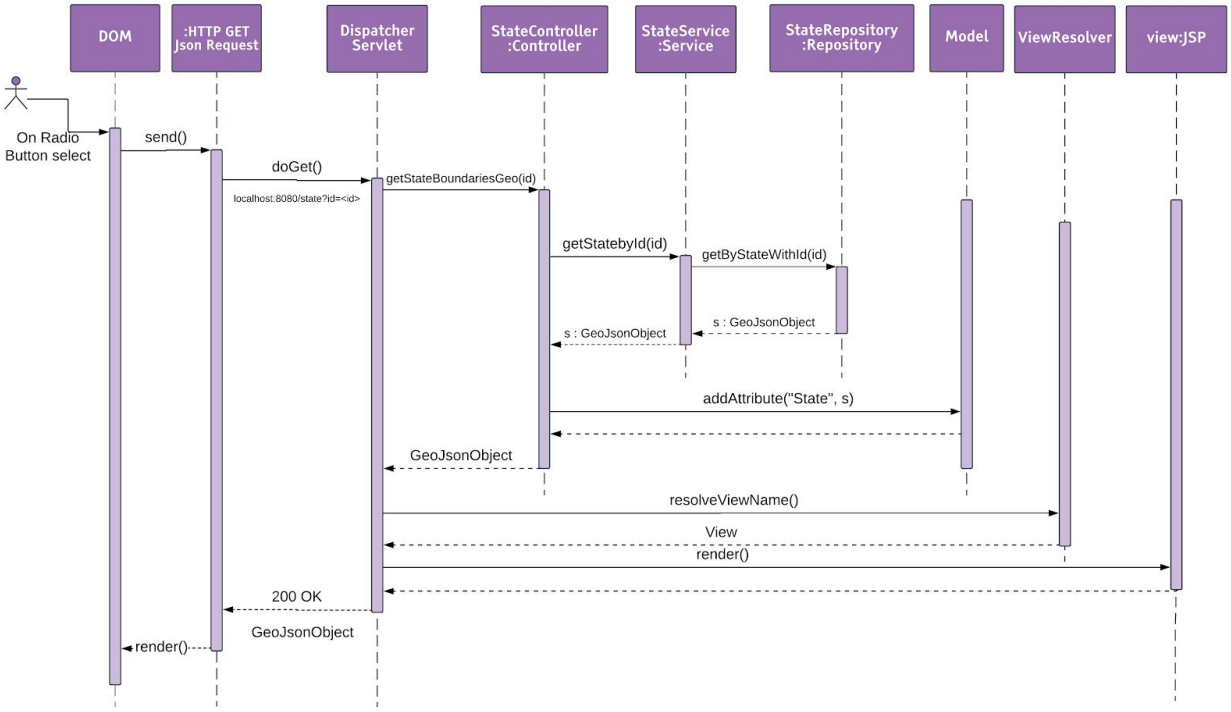
Redirect to Home



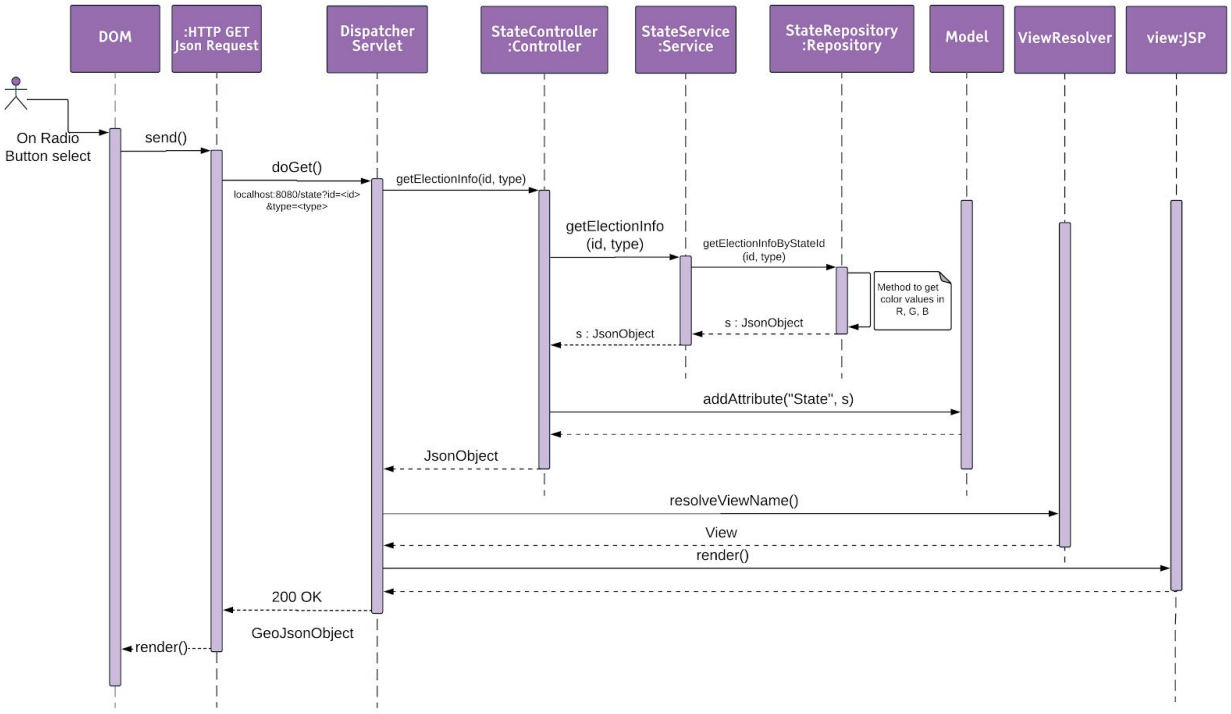
Select a Congressional District



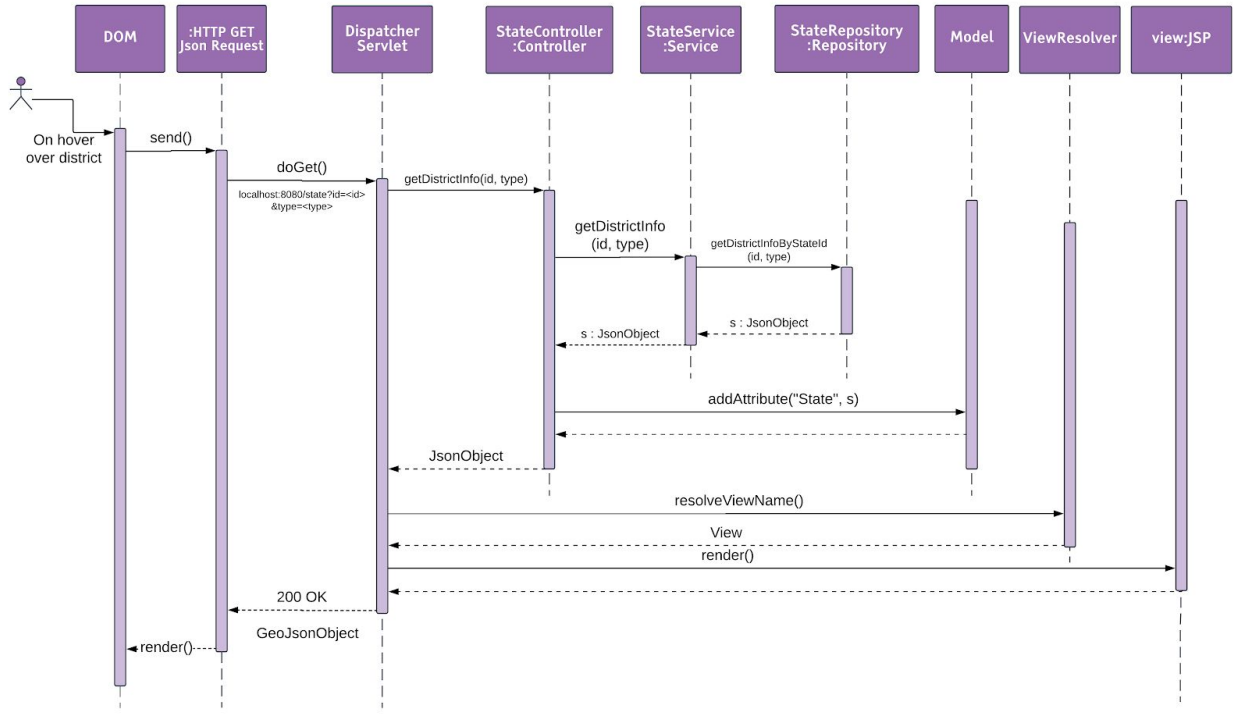
Select State District



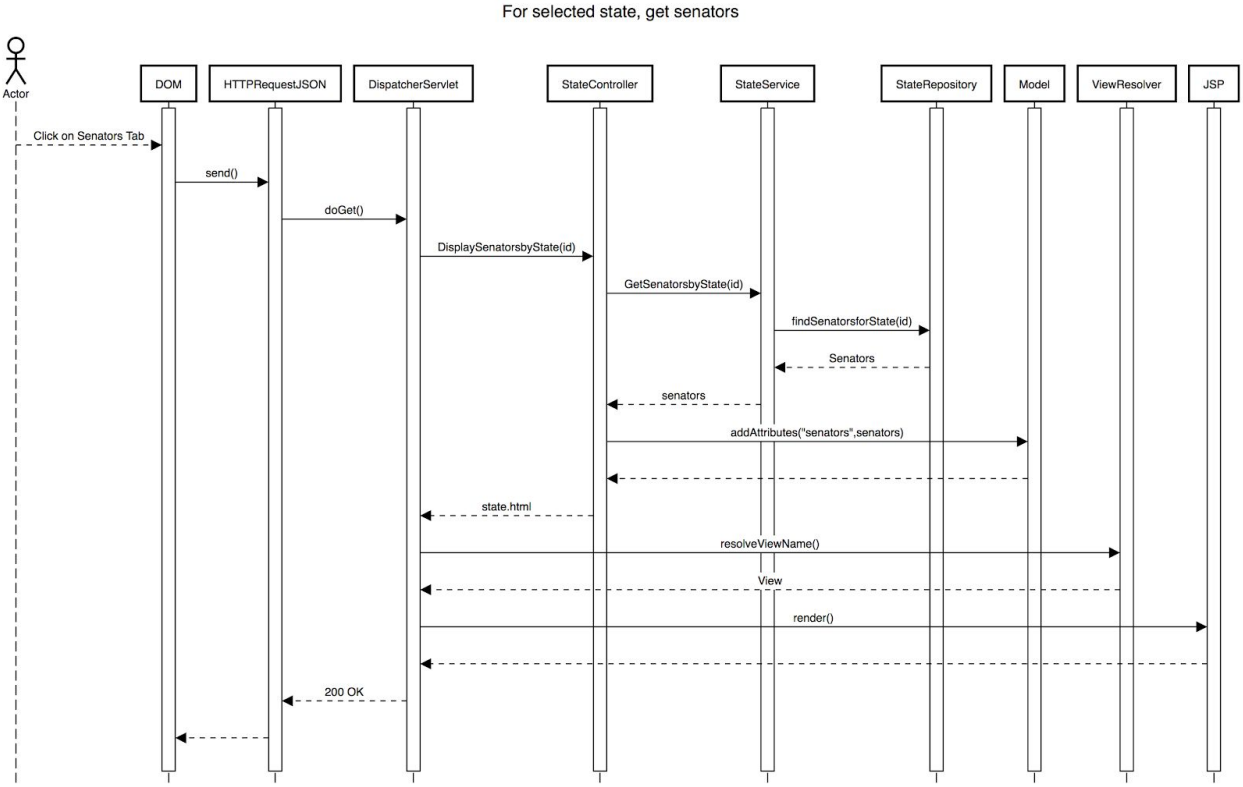
Select State Senate District



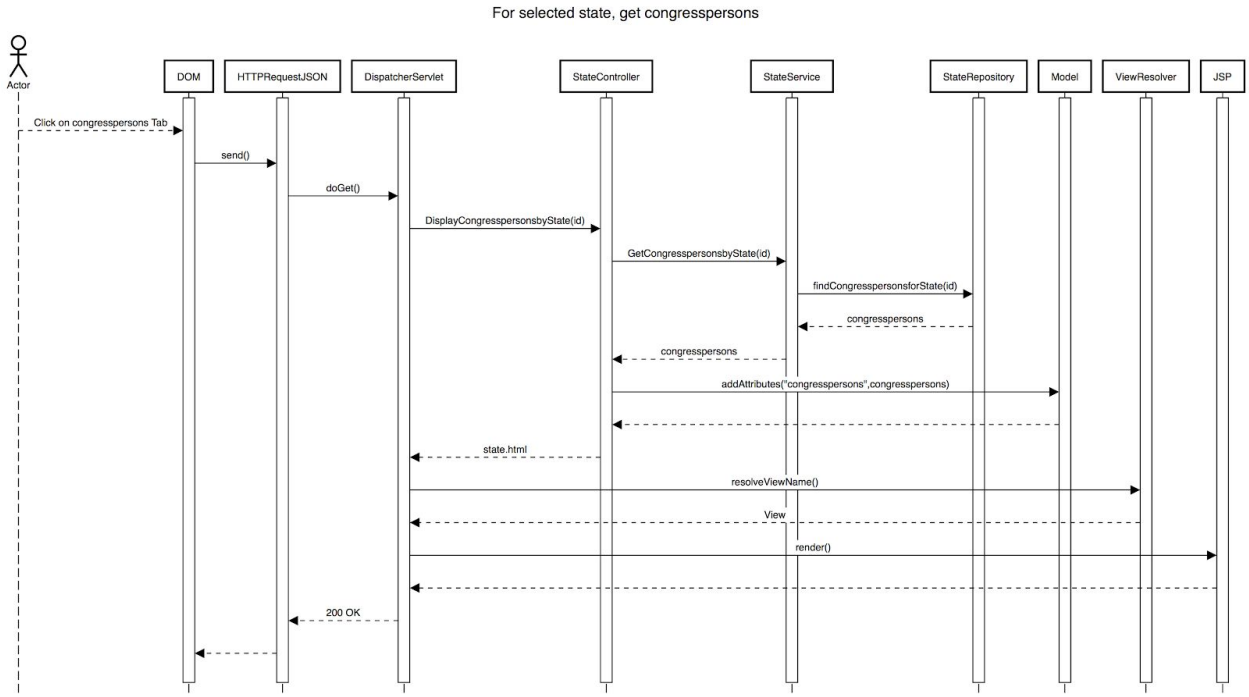
Show State Boundaries



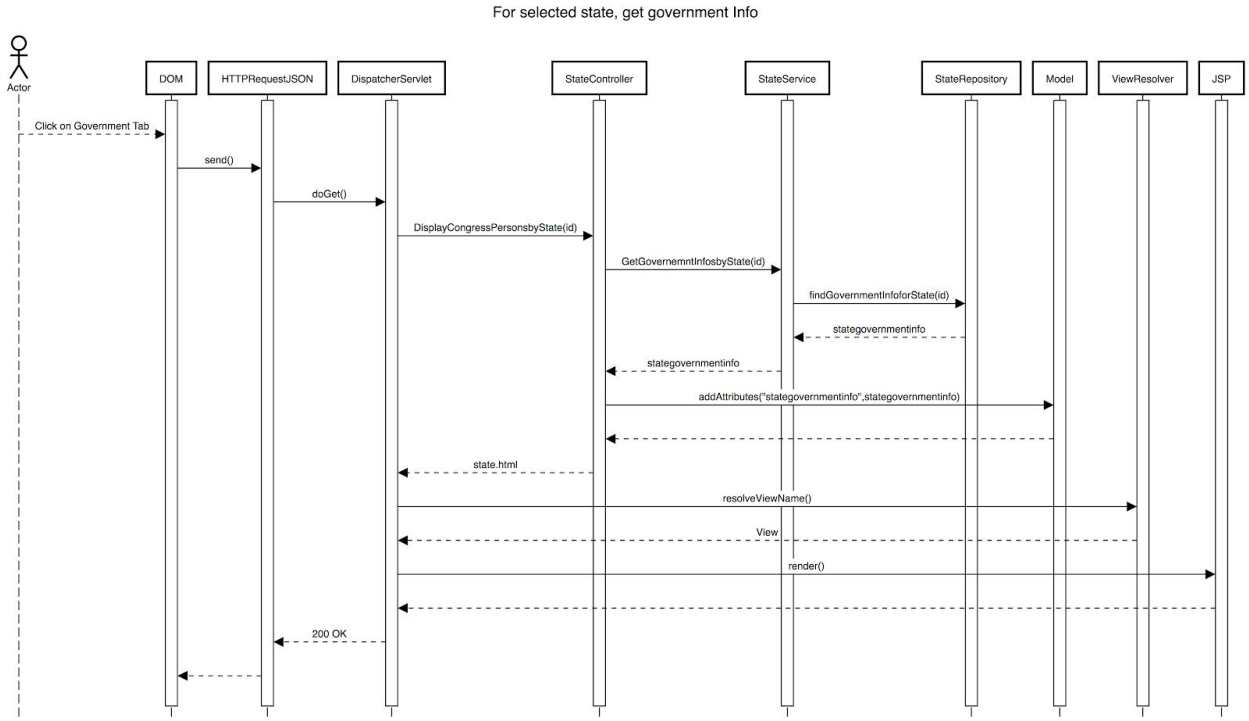
Color the Selected Districts



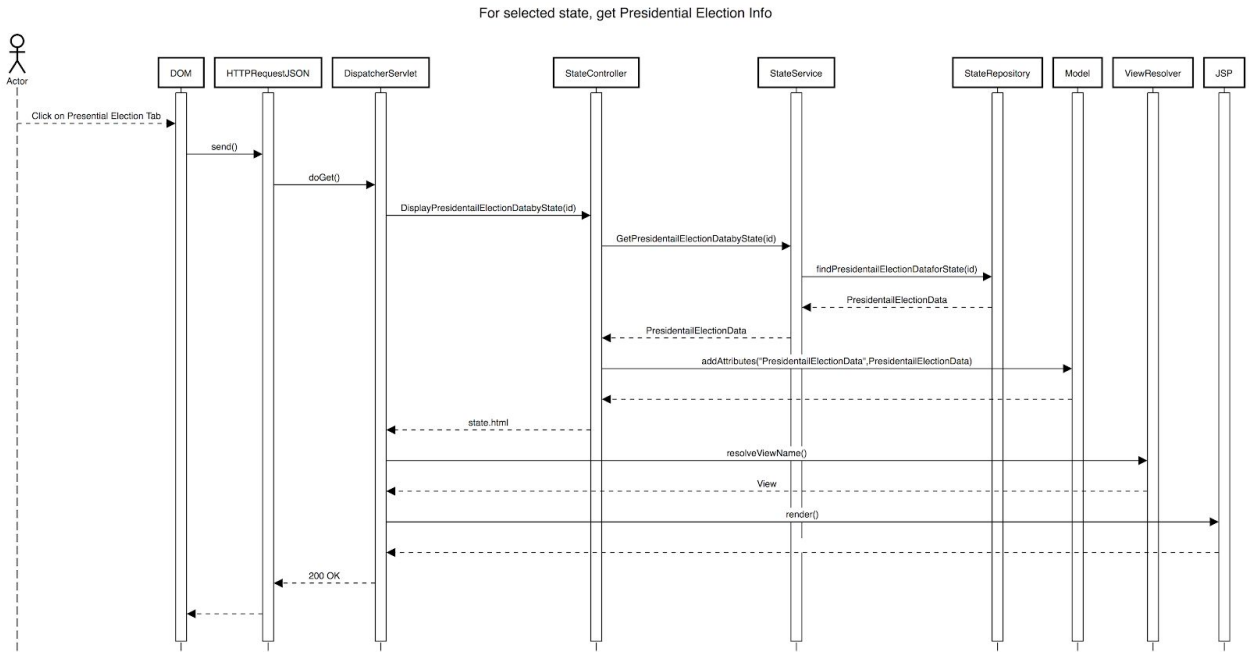
For Selected State, display Senators.



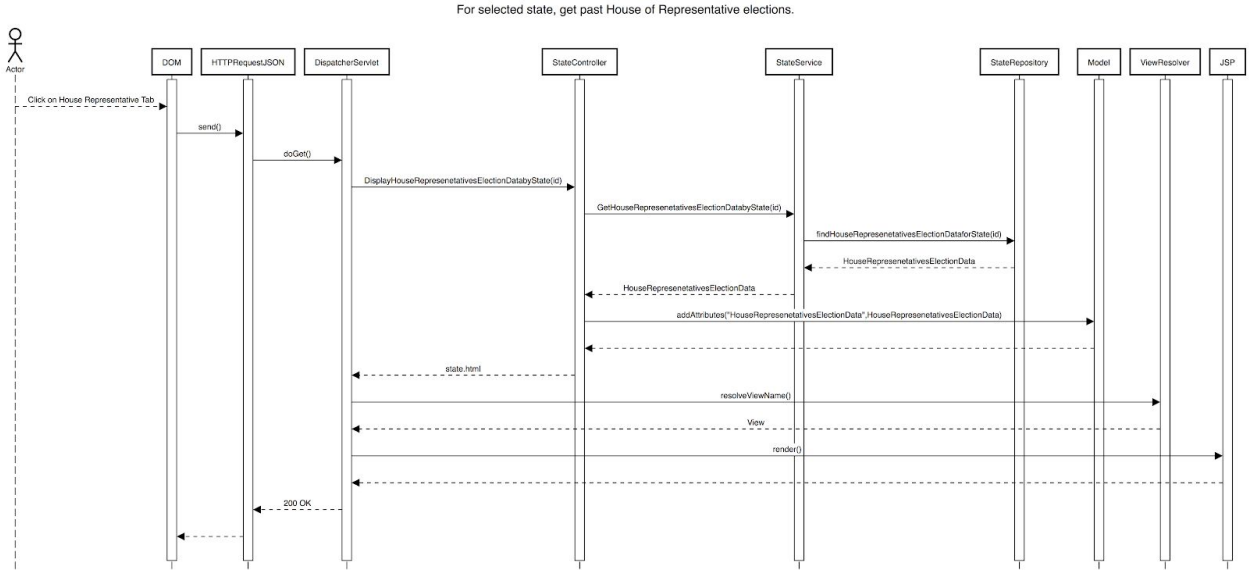
For Selected State, display Congresspersons.



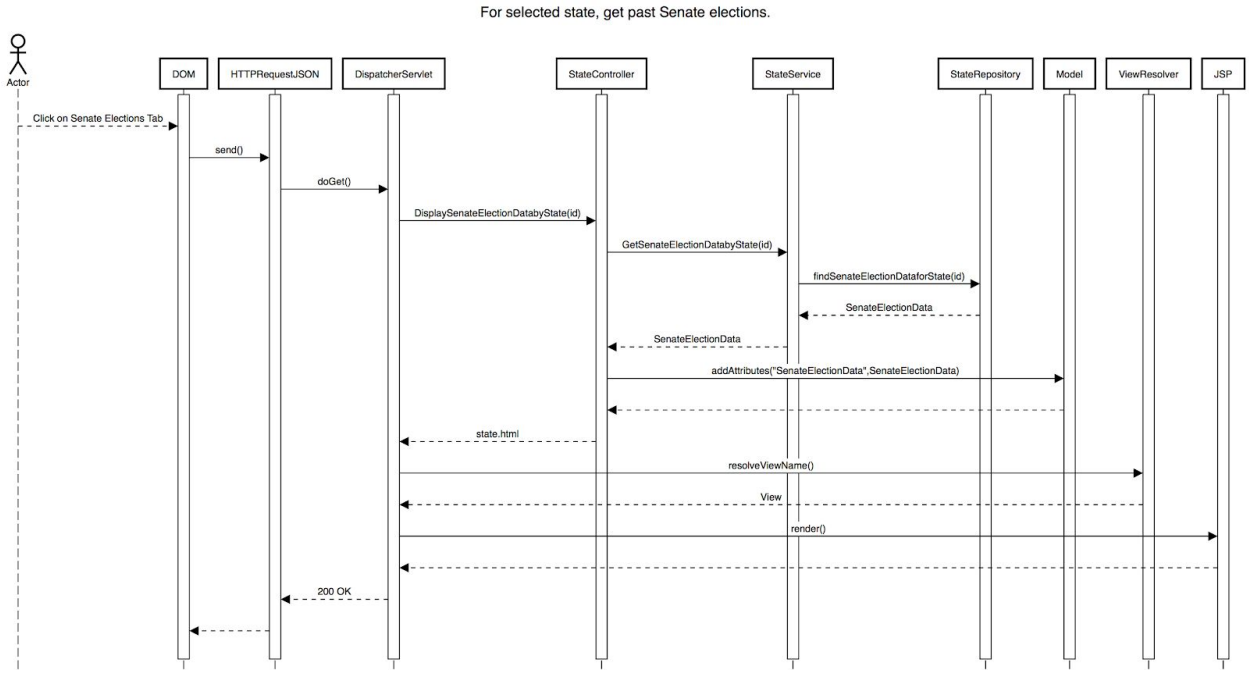
For Selected State, display other information.



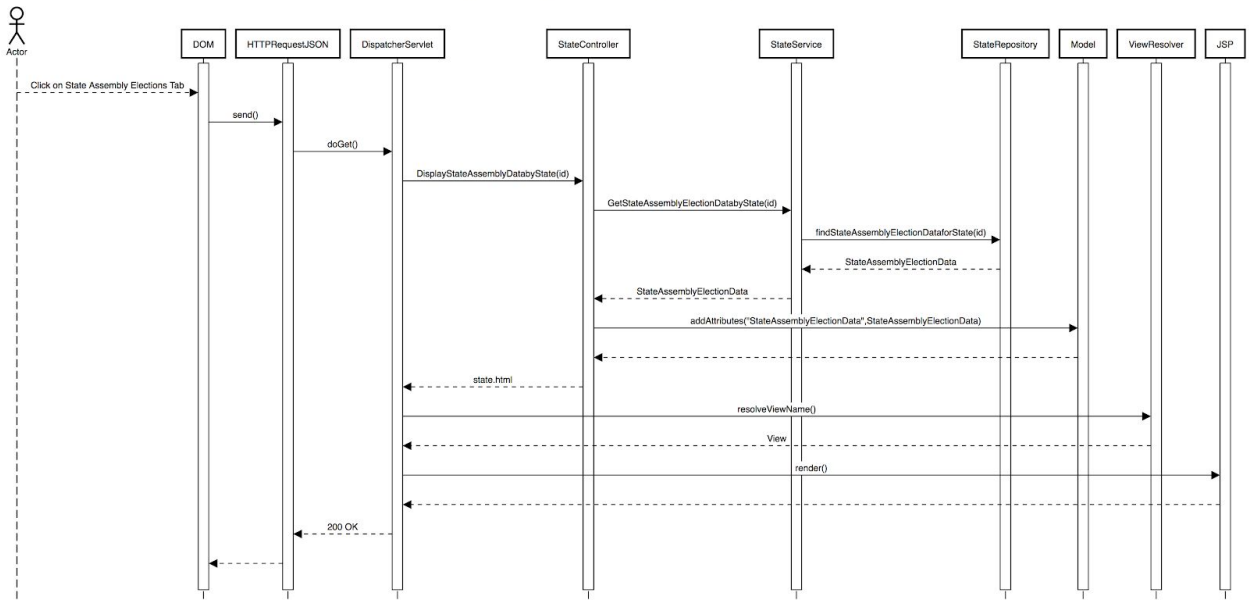
For Selected State, display Presidential Election data.



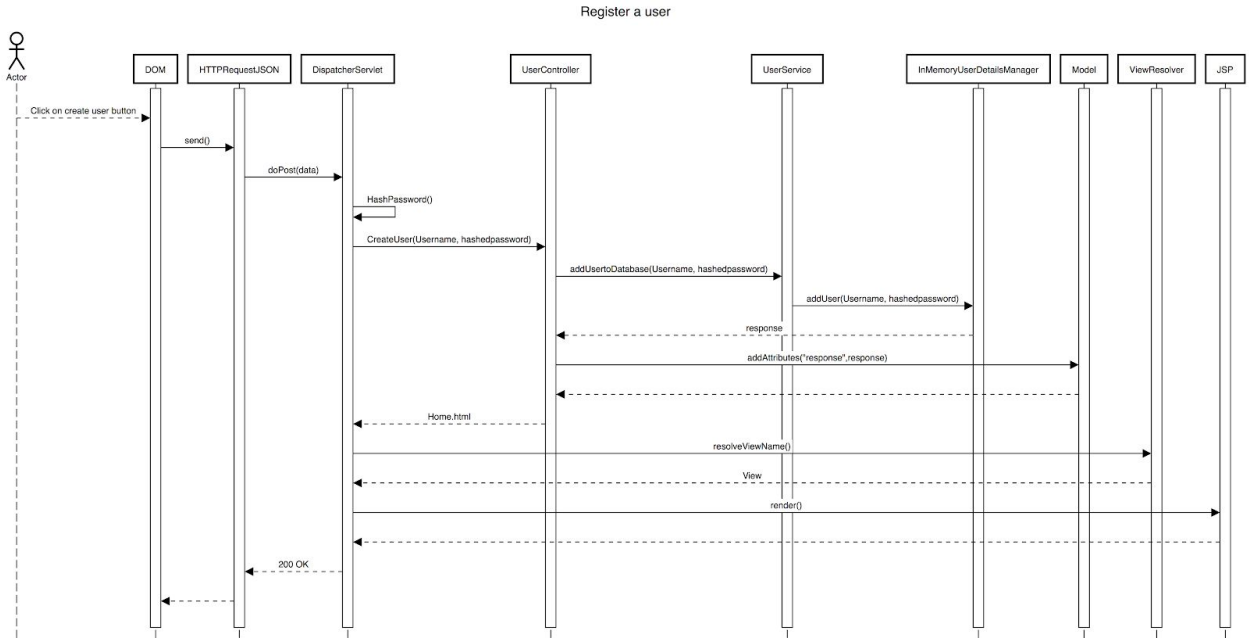
For Selected State, display House Election data.



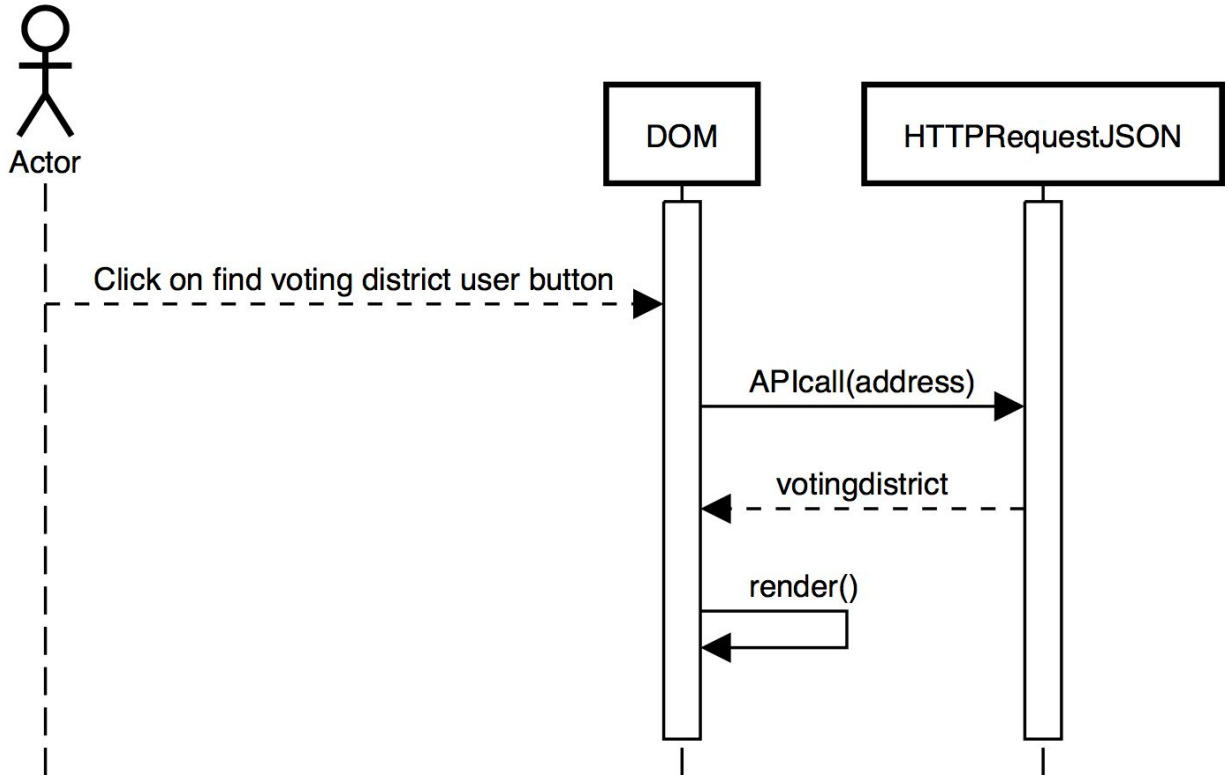
For Selected State, display Senate Election data.



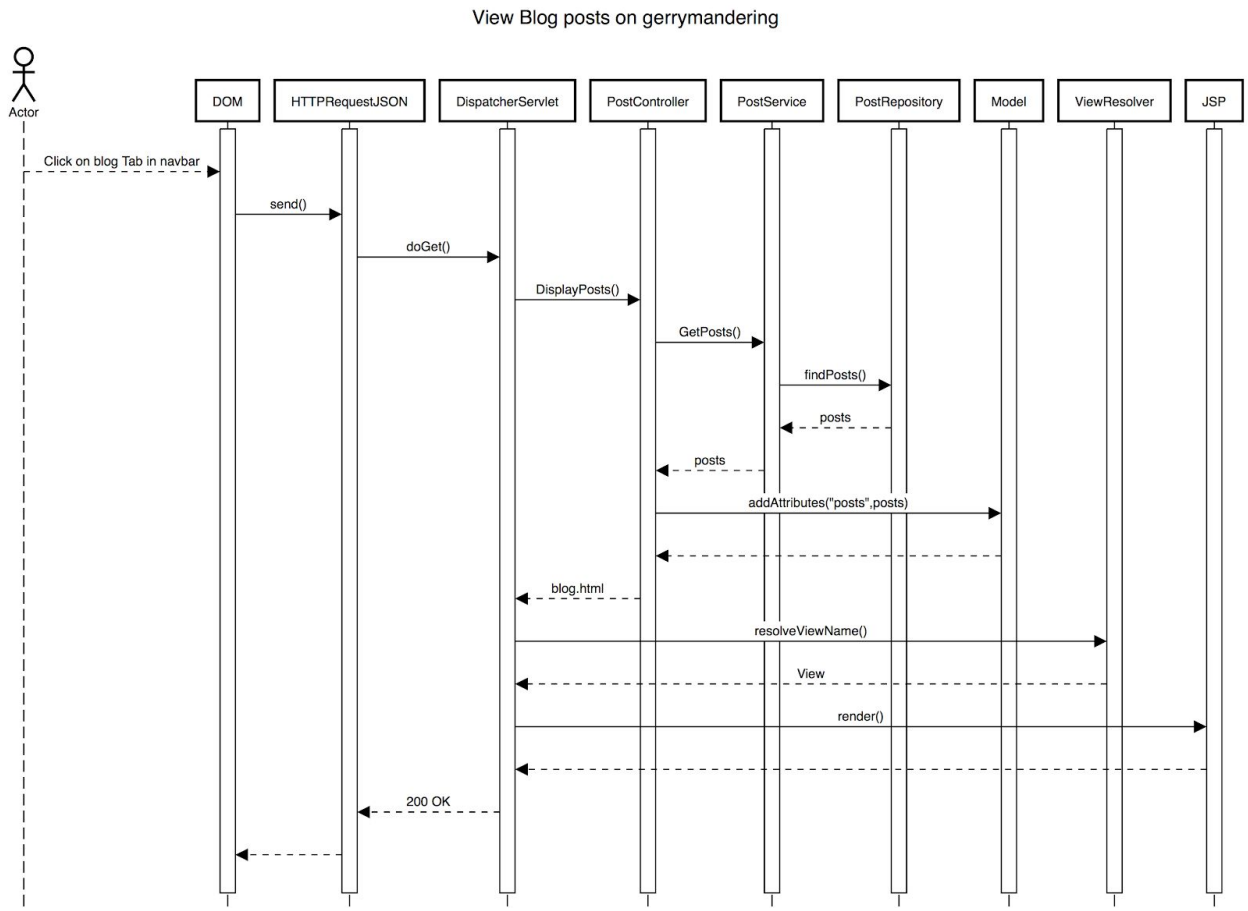
For Selected State, display State Election data.



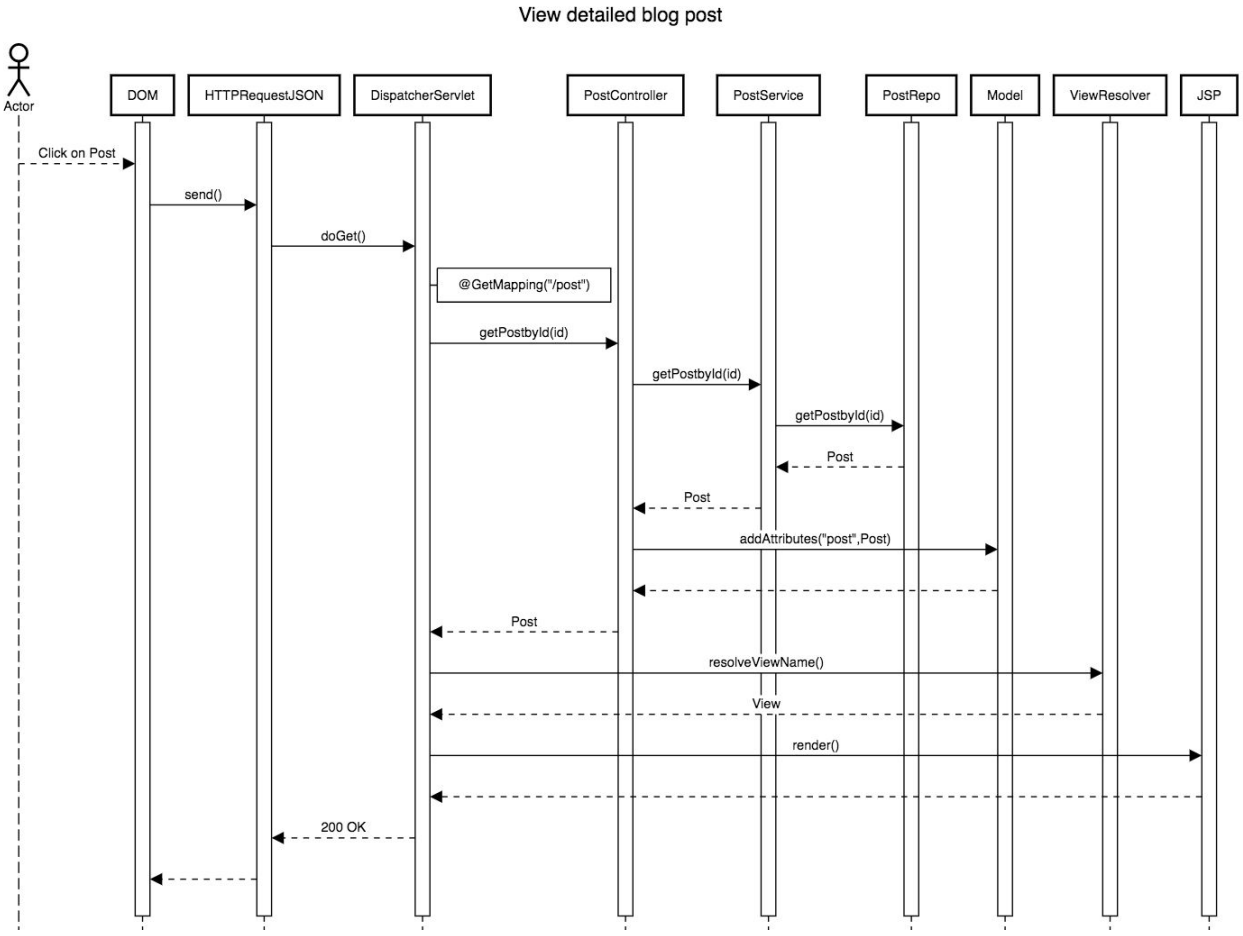
Register a User



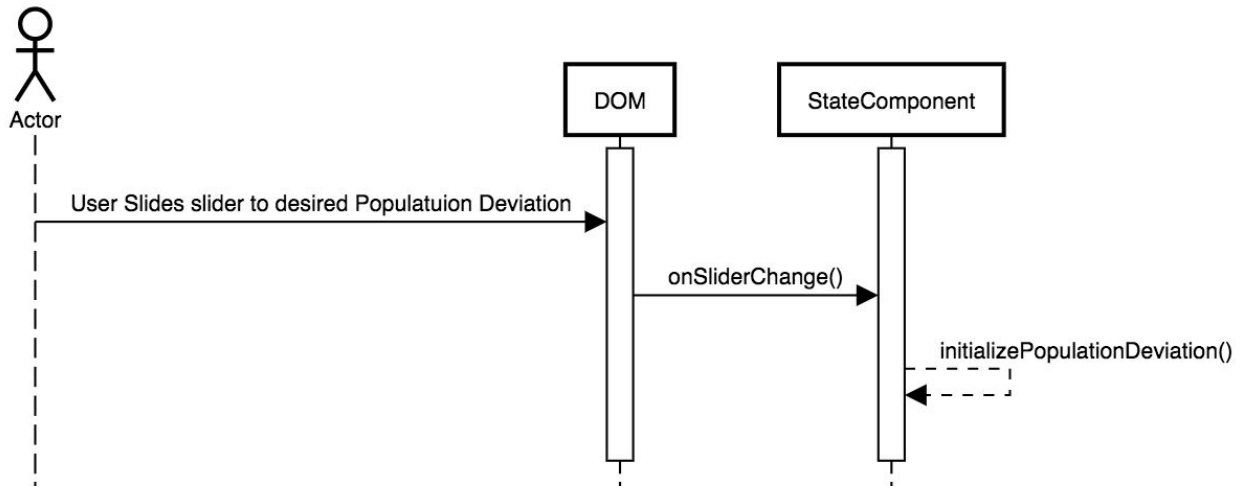
Get Voting District by address.



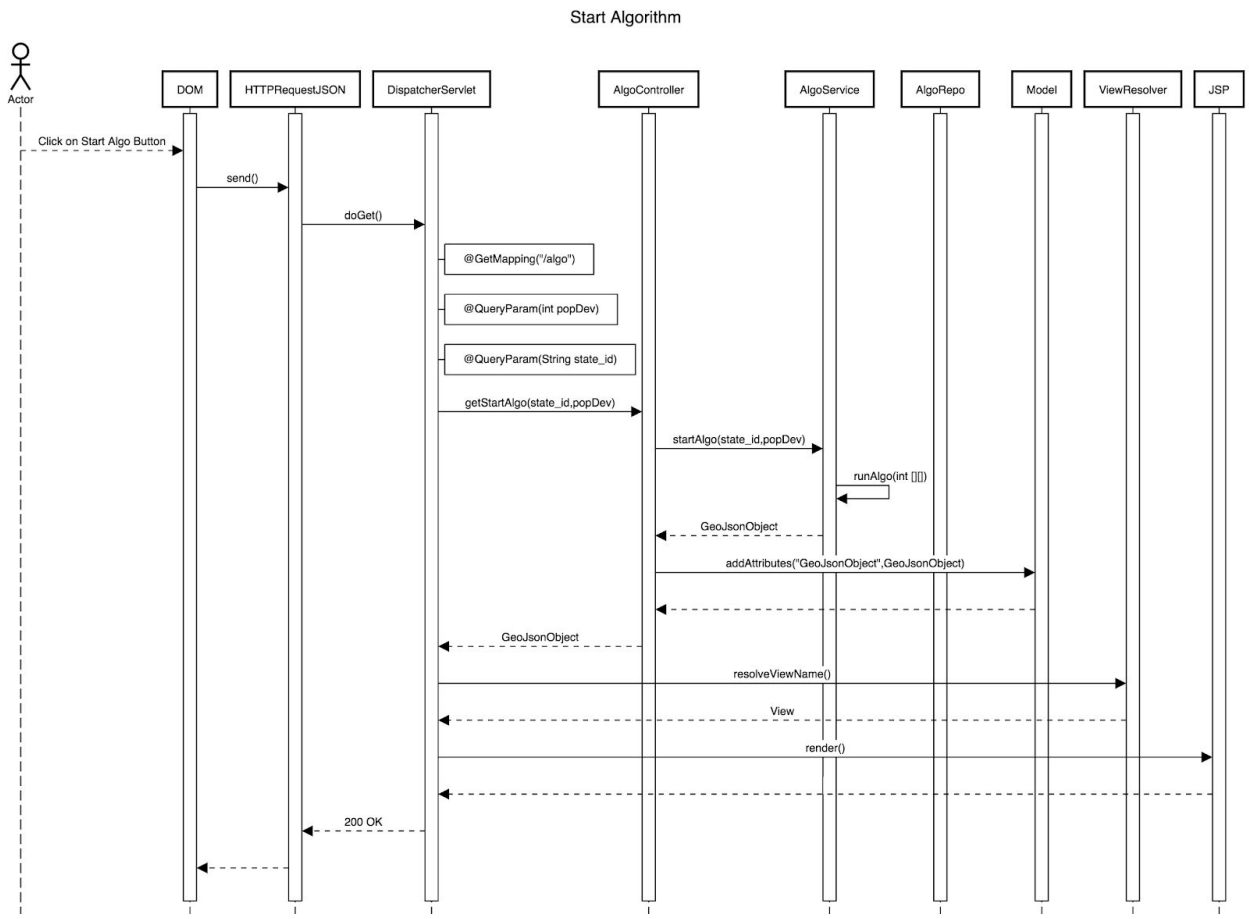
View Blog posts on Gerrymandering.



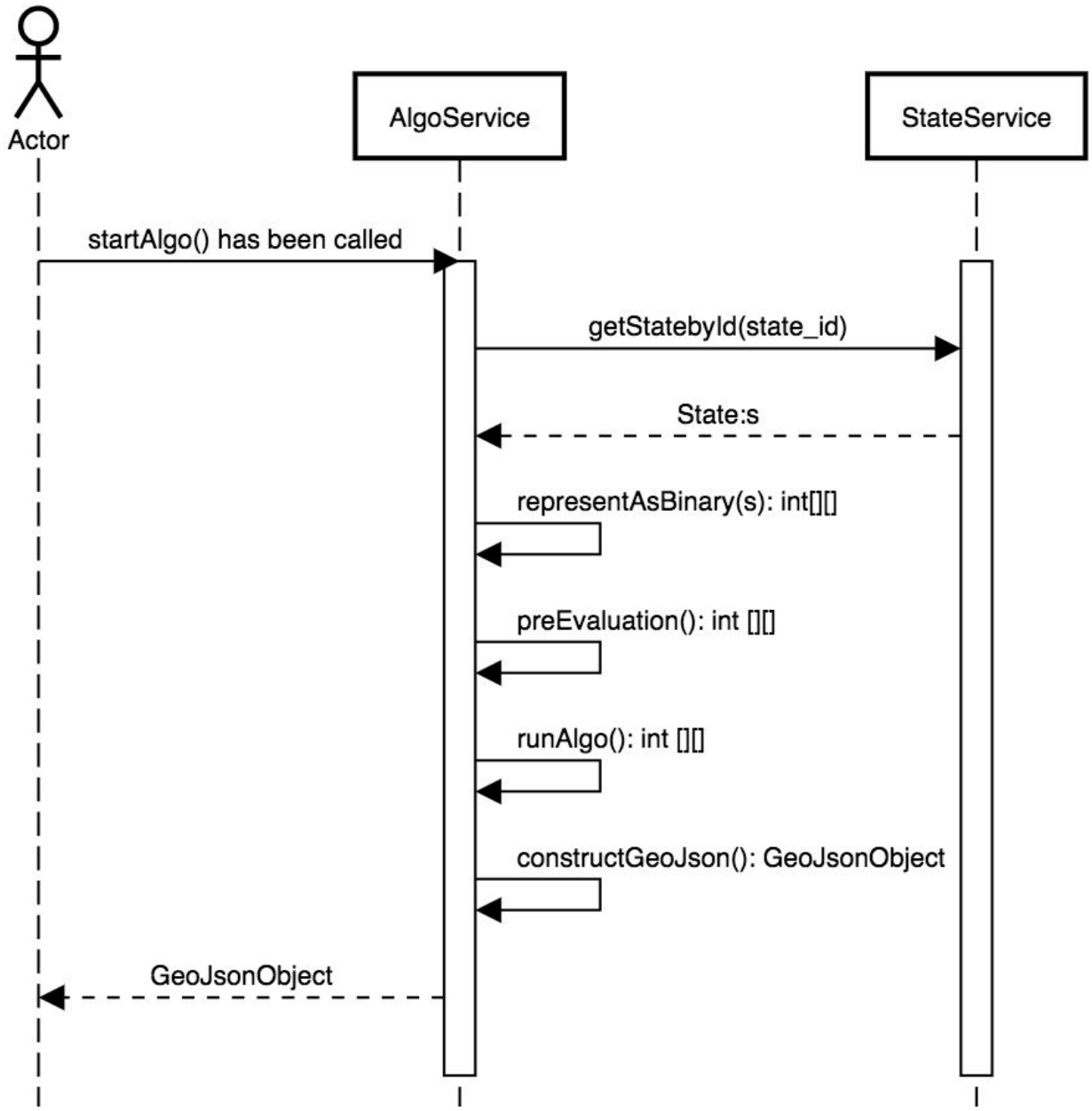
View detailed Blog post.



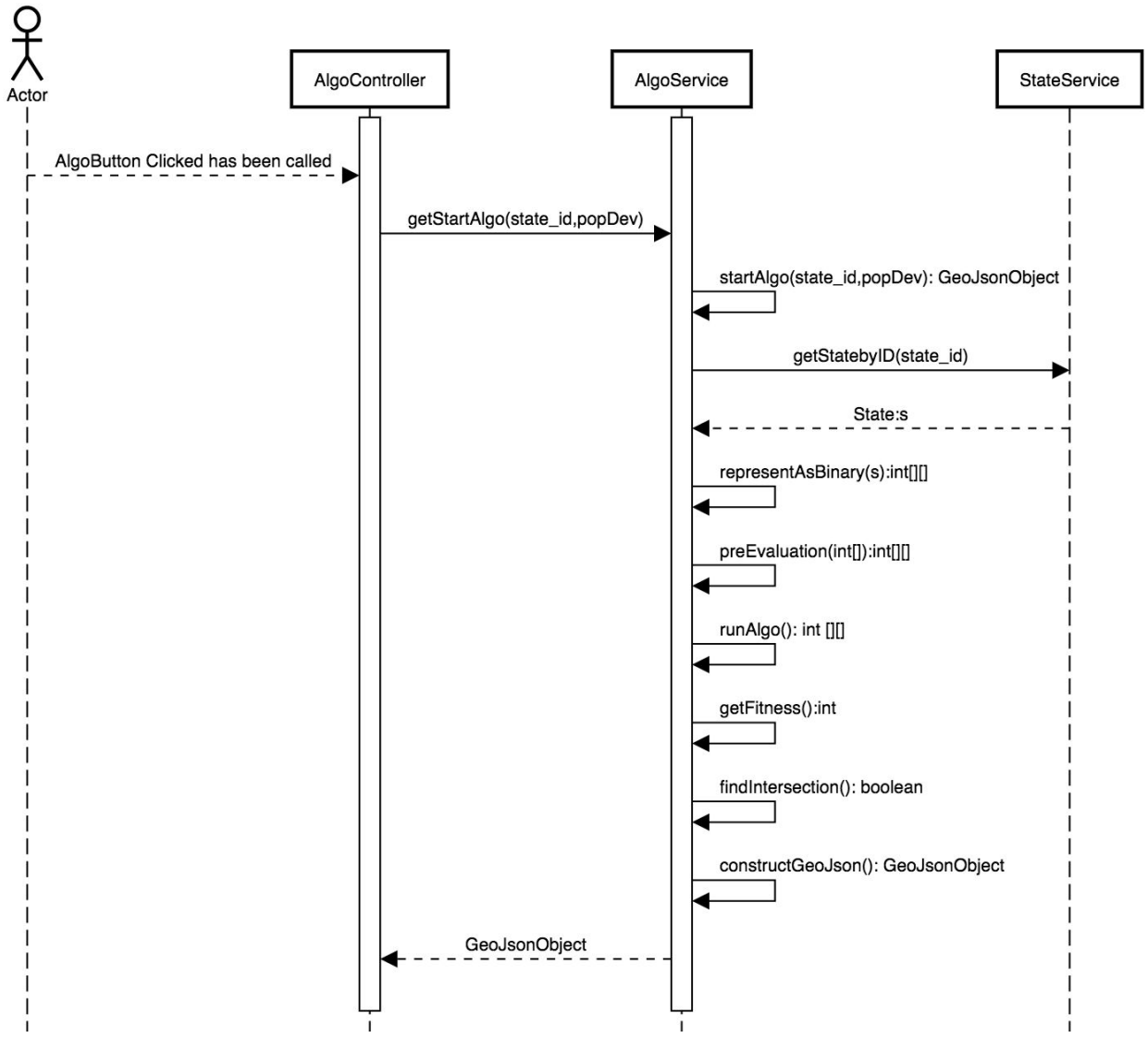
Set the slider to change the population deviation property for redistricting.



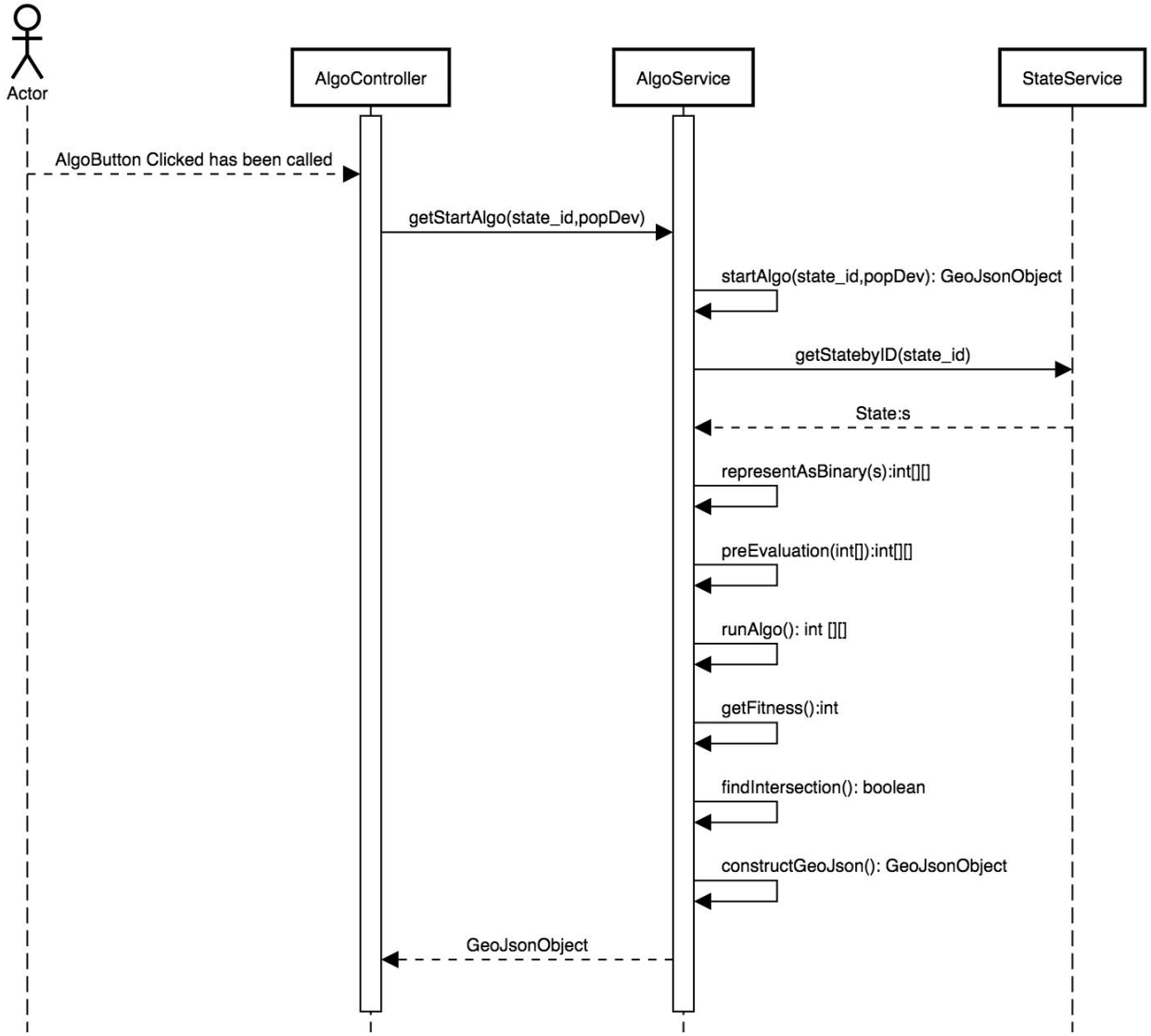
Start Algorithm



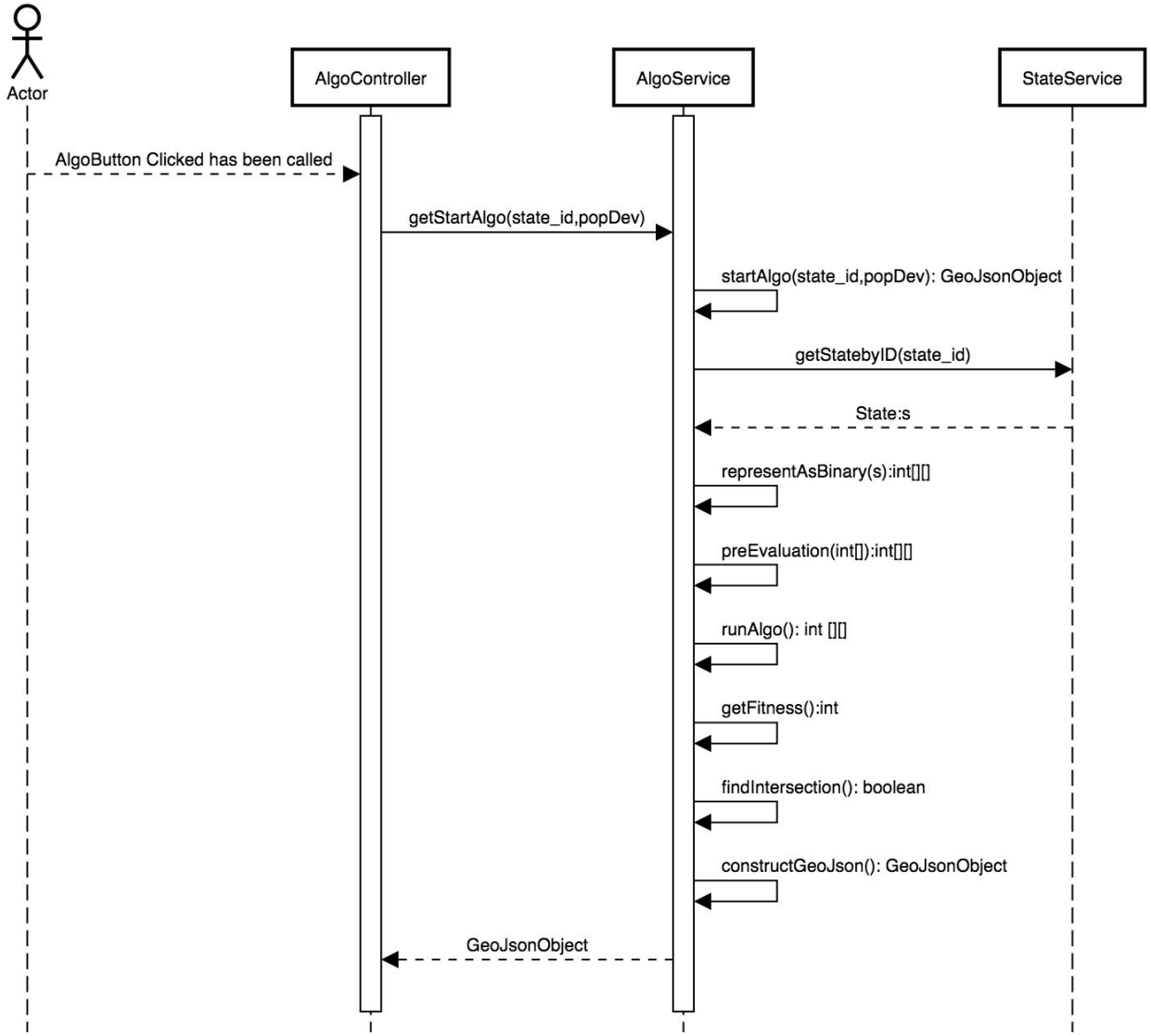
Represent Congressional Districts as Binary Arrays



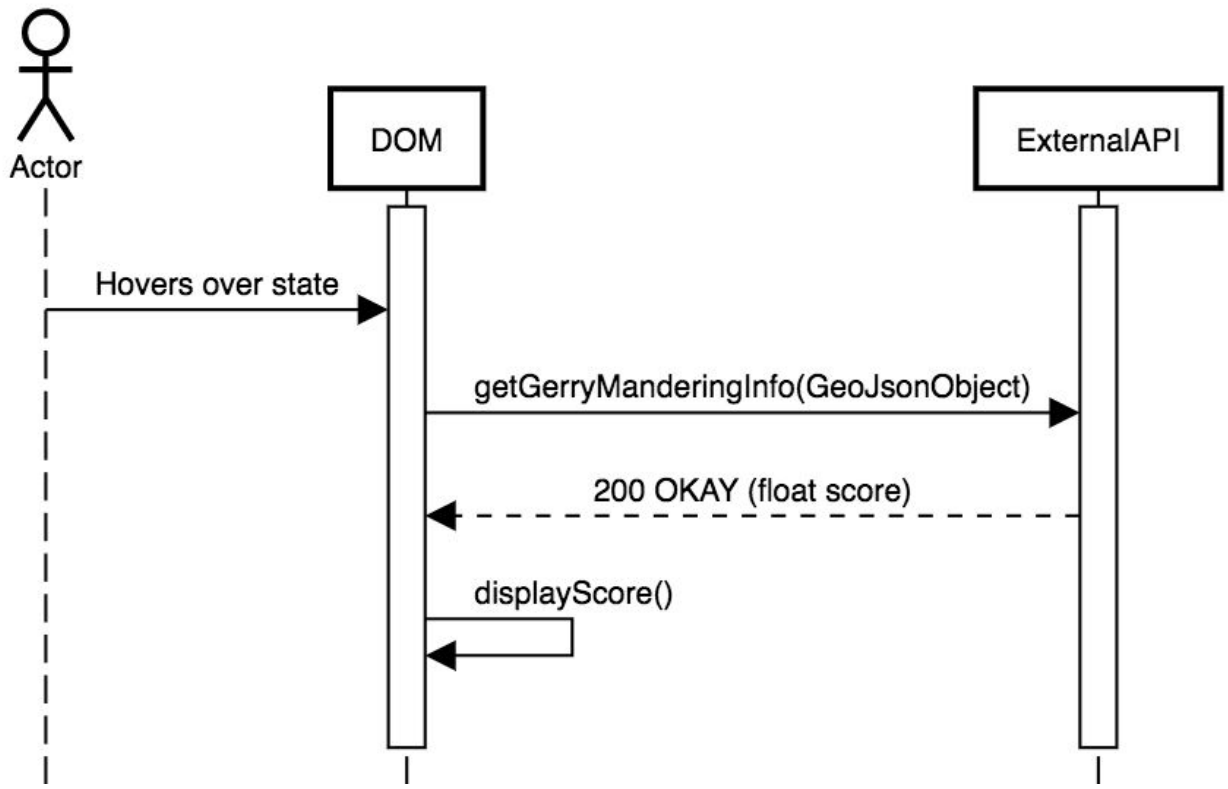
Pre - Evaluation



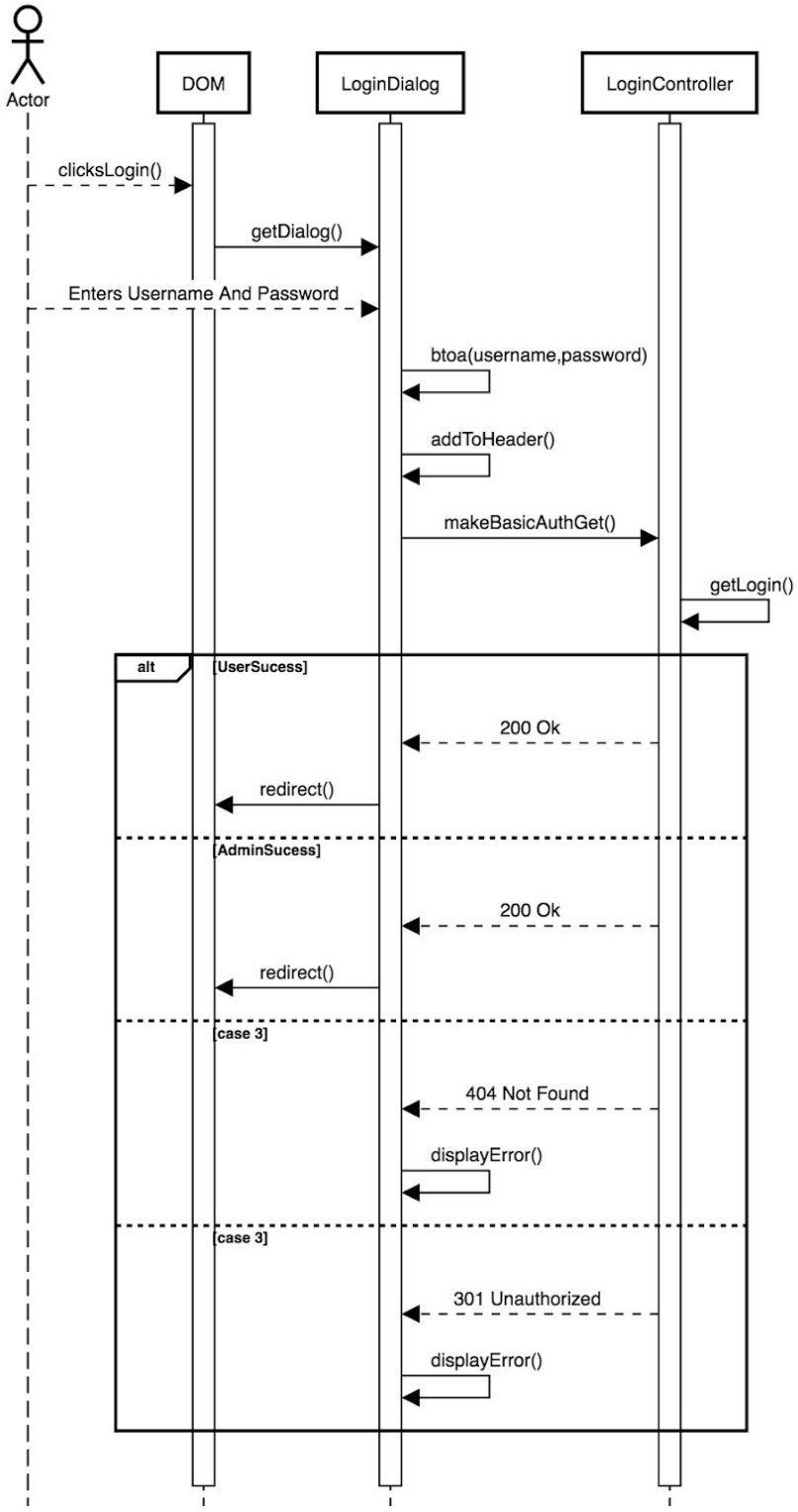
Check Fitness



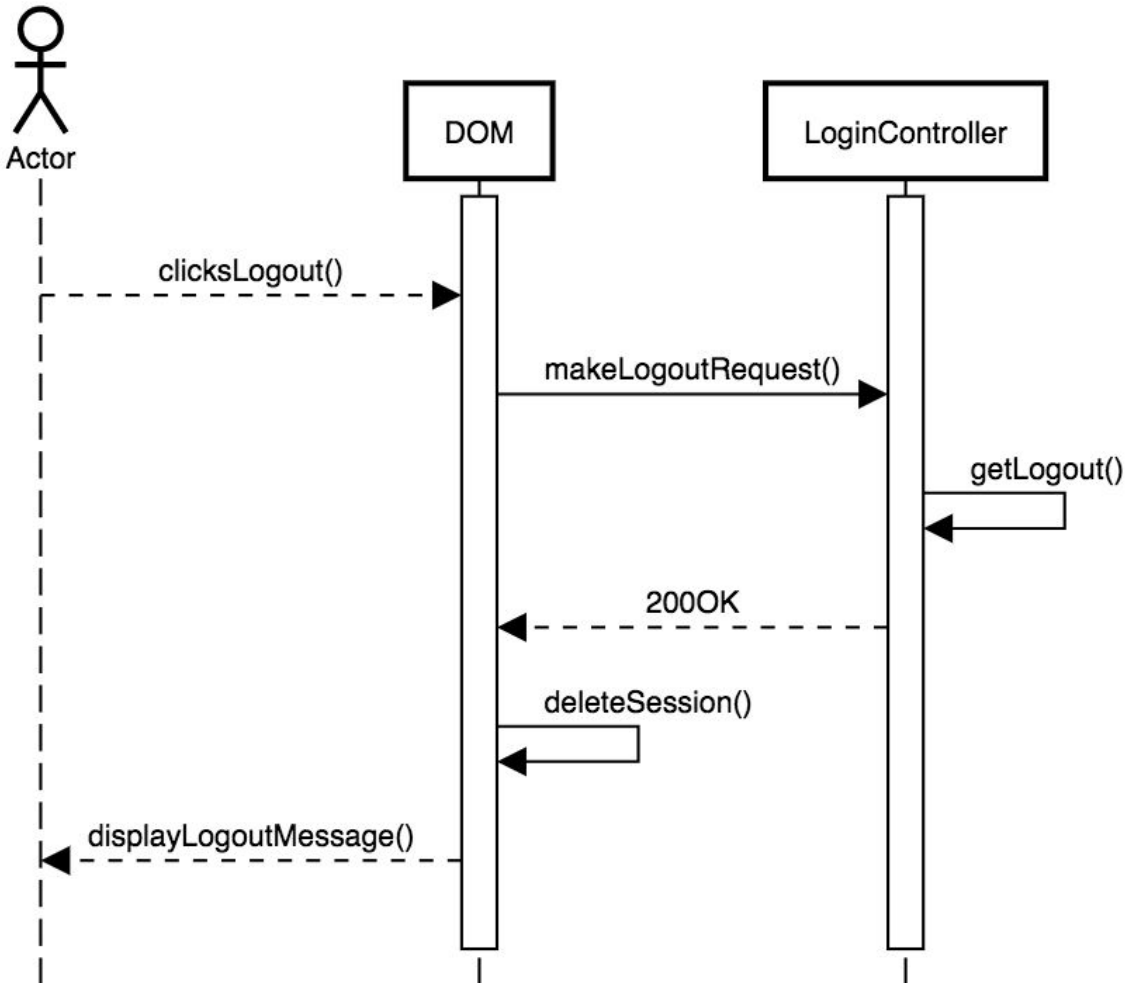
Convert Data Structures to GeoJson format



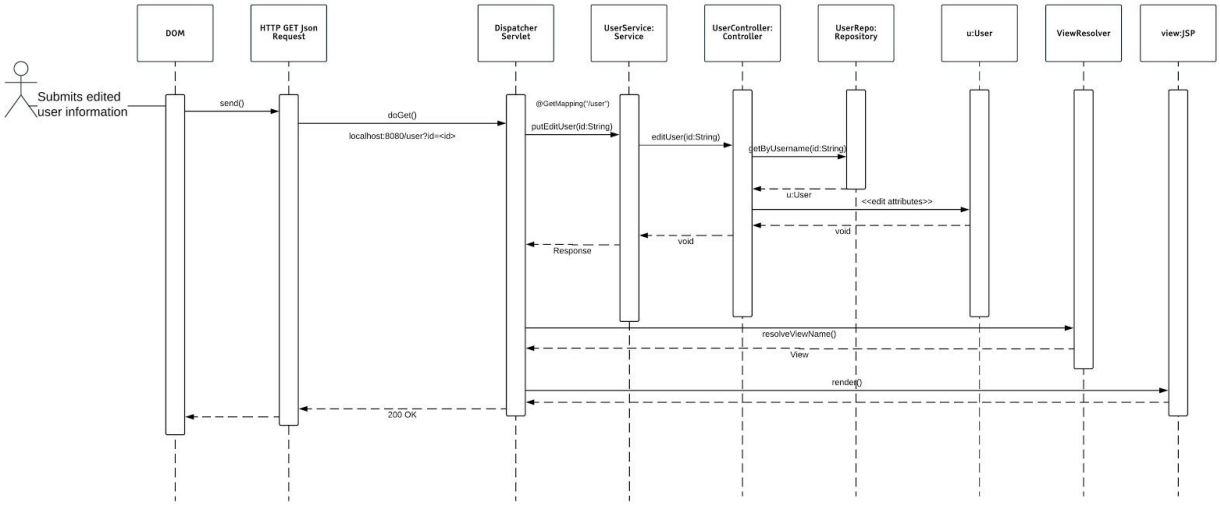
Check if district is gerrymandered.


Actor
DOM
LoginDialog
LoginController
clicksLogin()
getDialog()
Enters Username And Password
btoa(username,password)
addToHeader()
makeBasicAuthGet()
getLogin()
alt
[UserSucess]
200 Ok
redirect()
[AdminSucess]
200 Ok
redirect()
[case 3]
404 Not Found
displayError()
[case 3]
301 Unauthorized
displayError()

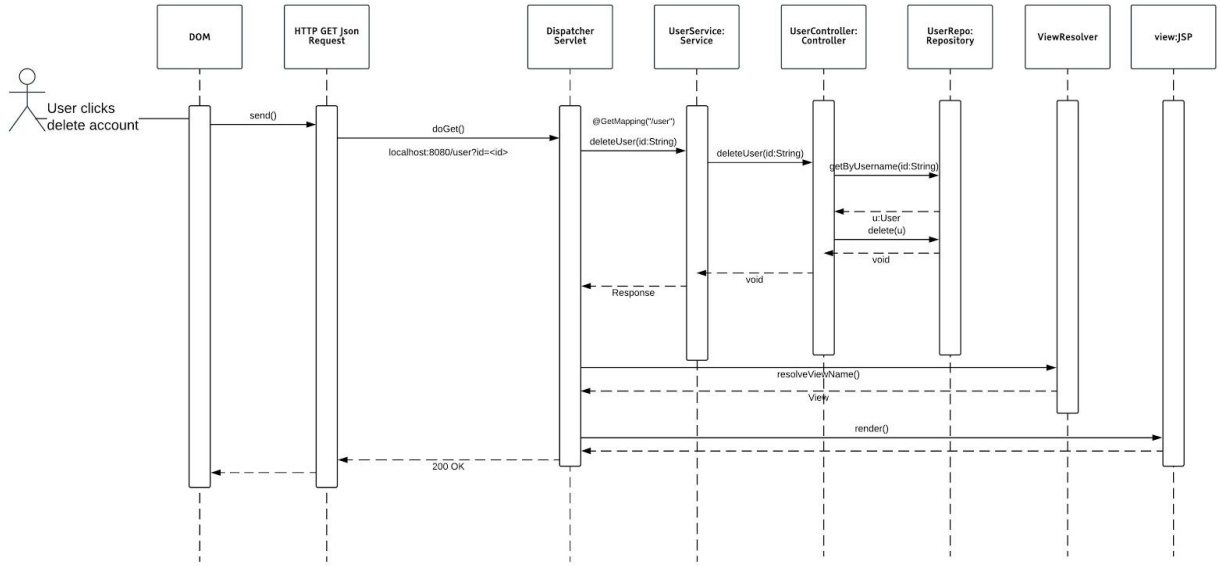
Login



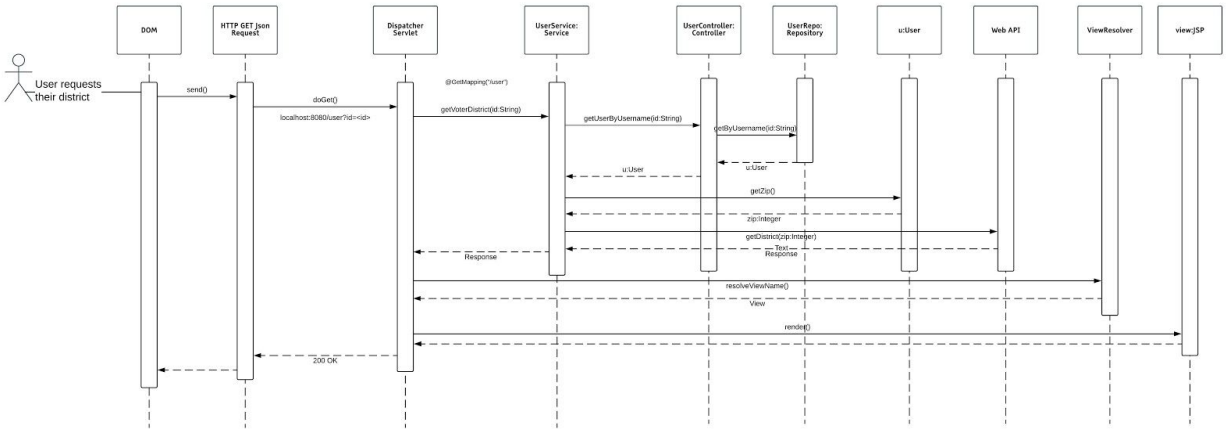
Logout



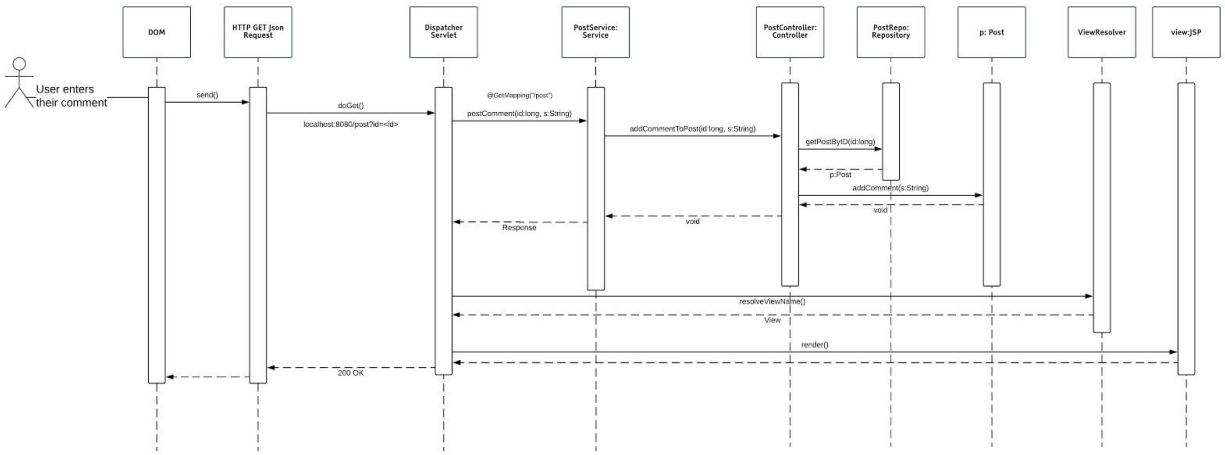
Edit Profile.



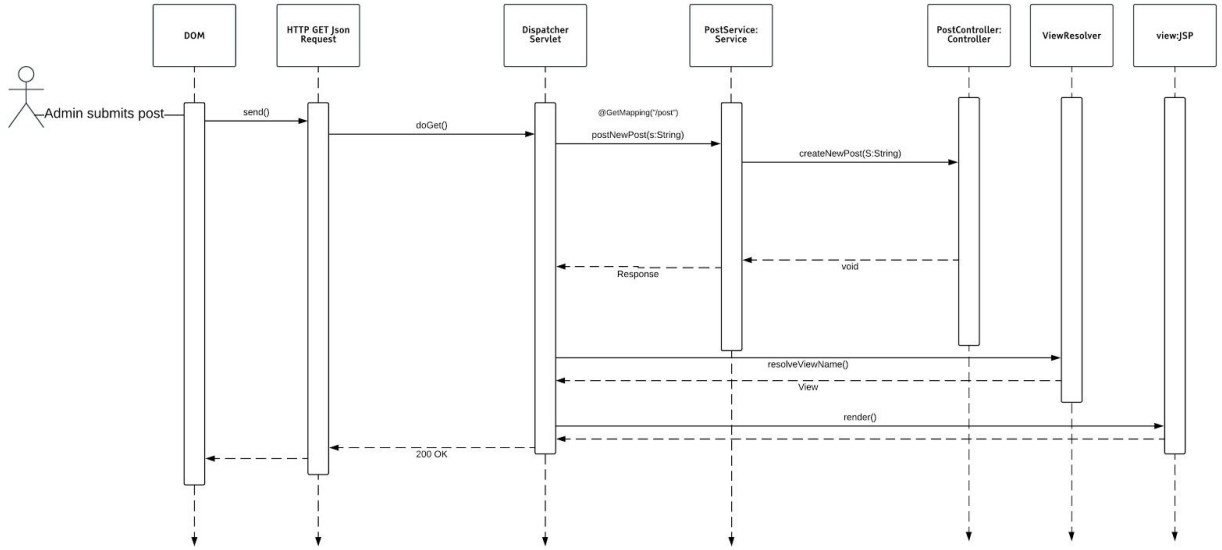
Delete Account



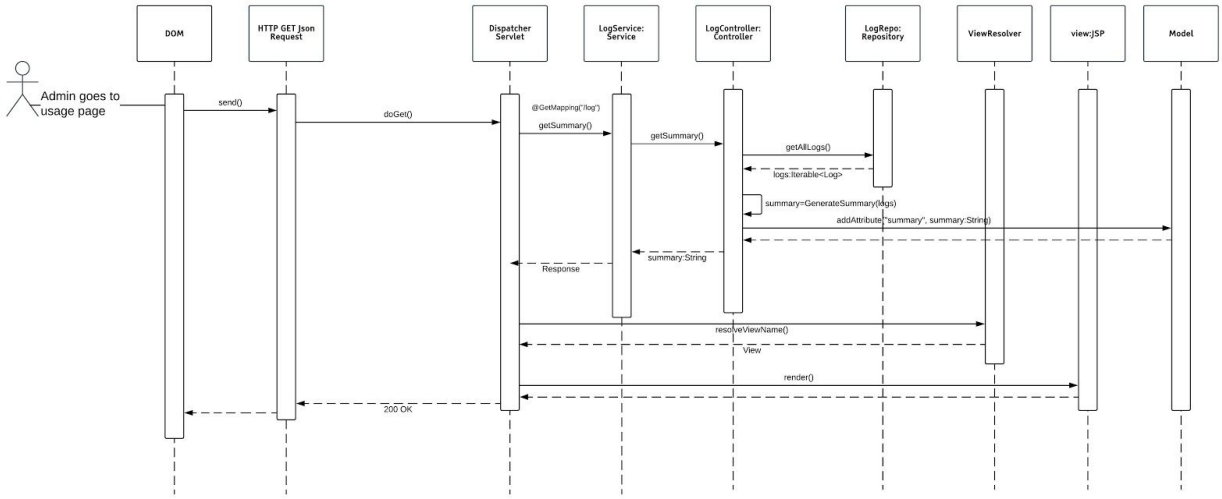
Get User Voting Data



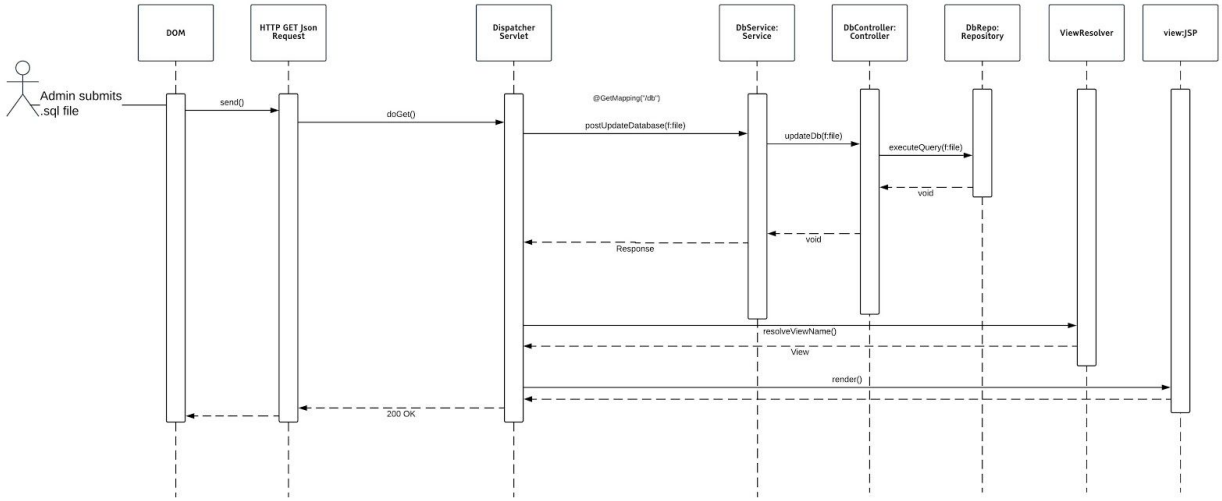
Comment on Blogs



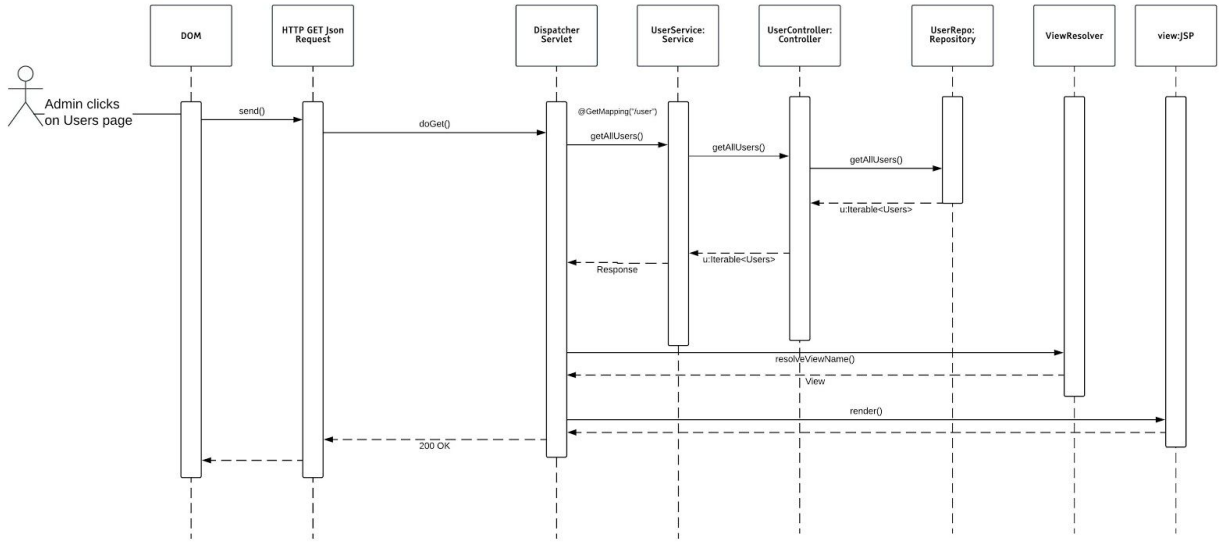
Add a Blog Post



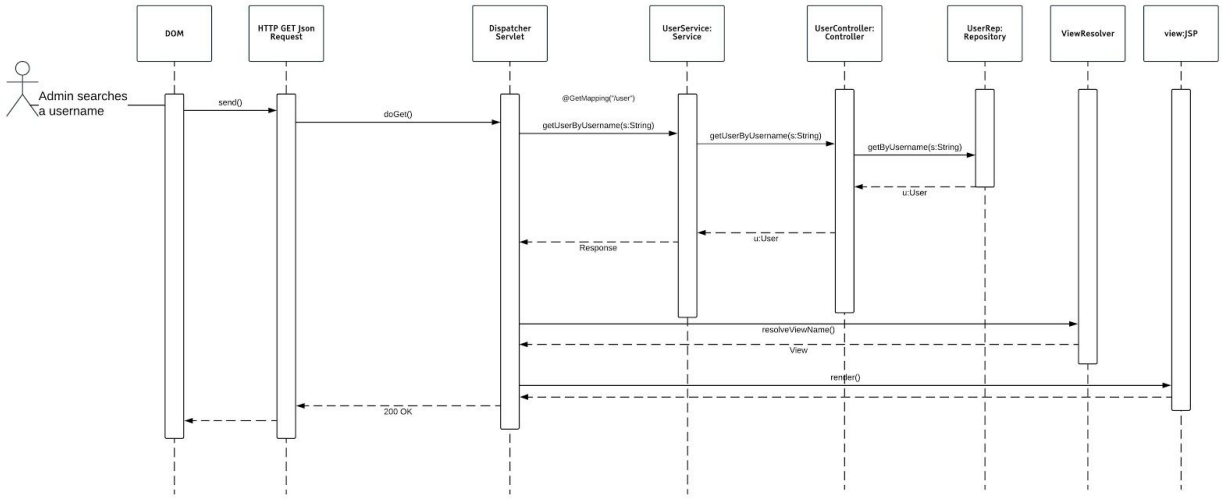
Summarize usage data



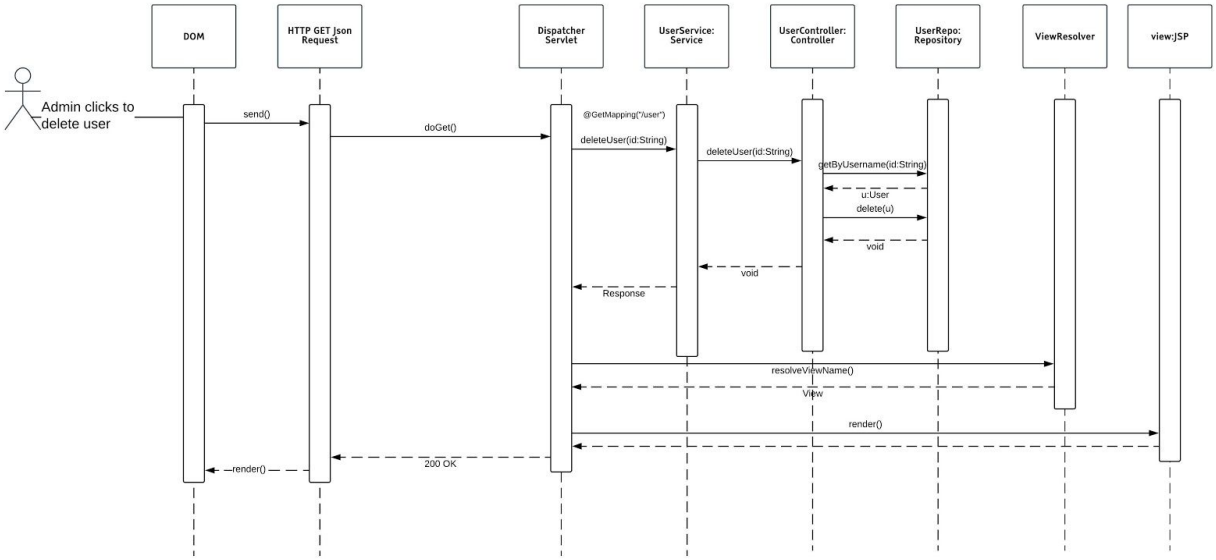
Update Databases



Show all users



Search User


DOM
HTTP GET Json Request
Dispatcher Servlet
UserService: Service
UserController: Controller
UserRepo: Repository
ViewResolver
view:JSP
Admin clicks to delete user
send()
doGet()
@GetMapping("/user")
deleteUser(id:String)
deleteUser(id:String)
getByUsername(id:String)
u:User
delete(u)
void
void
Response
resolveViewName()
View
render()
200 OK
render()

Remove User