Backed Design

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Init.py -> contains the flask application initiation and sqlachemy configuration to connect to database.

Hashingservice.py -> to hash the password of the user while sign up using bcrypt hash.

Jwtservice.py -> to create authorisation token for the user who logged in and it will get validated in all subsequent calls of the back end rest apis.

Middleware.py -> it will validate token is present for the rest api’s.

apis-> stateAPI.py -> /getStates,/addState etc…

districtAPI.py -> /getDistrict,/addDistrict etc…

Models -> stateModel.py -> class states

districtModel.py -> class districts

Main.py -> Application.run

Front Design

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API-> contains the class with functions to call backend rest API’s. This can be created with separated classes for respective modules. For POC purpose i created one class.

Views -> AddState.py, Login.py,DisplayStates.py -> Contains stream lit code to display the page according to functionality.

Main -> Will call main page