API Gateway

Hackathon FY24

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Why do we need this?

- The main reason we wanted to do this is to have front end better control over data being fetched from API endpoints resulting in better UI performance. (to address classic REST API problem of data over fetching or under fetching)

What we build

We used graphQL mesh framework to build this gateway server- more like a middleware that allows front end code to make GraphQL request to our REST APIs.

App → Gateway → API endpoints (could be any:REST, SOAP, GraphQL

So basically, our web app sends graphQL queries to this gateway server which gets data from REST API. This mesh gateway not only allows graphQL query but also offers other advantages like you can apply transforms to the schema, so frontend always gets data in the same way as long as entity remain same.(for ex if we are getting oppty information in two diff API calls. One returns oppty object as opptyID being the object key whereas in other response same data but under diff key let say opptyDetail

OpptyID:{
   Oppty information
}

OpptyDetail:{
   Oppty information
}