

Stark-Tower Reimburse

Project 1 Reimbursement system

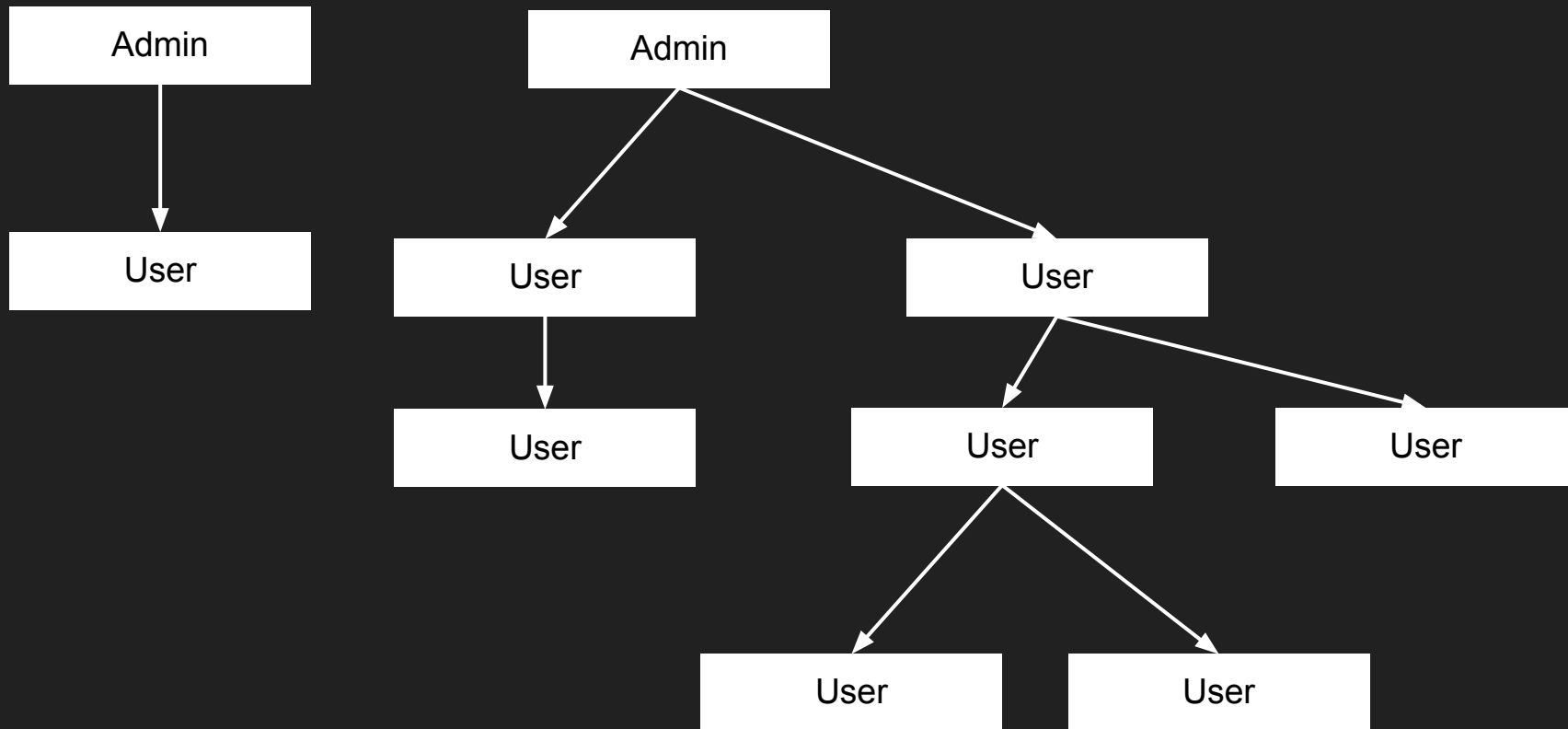
General Design choices

- The Server controls all correct data
 - All data manipulation is done on the server
 - approve, deny, create new reimbursement...
 - All data process is done on the server
 - The server does all filter
- The Frontend is exclusively for show data
 - No data manipulation is done on the front end
 - It can only display information the backend sends
 - Only a handful of buttons sends commands to the backend
- Why this design?
 - The front end can be forced on displaying and nothing else
 - If the format of the data changes, the front end doesn't break
 - Statistics can be done any way and not change how the front end looks
 - Unless something is deprecated

General Design choices

- Structure
 - All Accounts have the following structure
 - Each Account has 1 Manager
 - Only Manager your assigned employees
 - If you have no Manager
 - You are an admin
 - You can manager ALL employees
 - Why?
 - A manager could make a request to their supervisor
 - This can be disabled if all managers are admins
 - You can easily change the structure as you need it
 - 1 admin
 - Branching tree after this

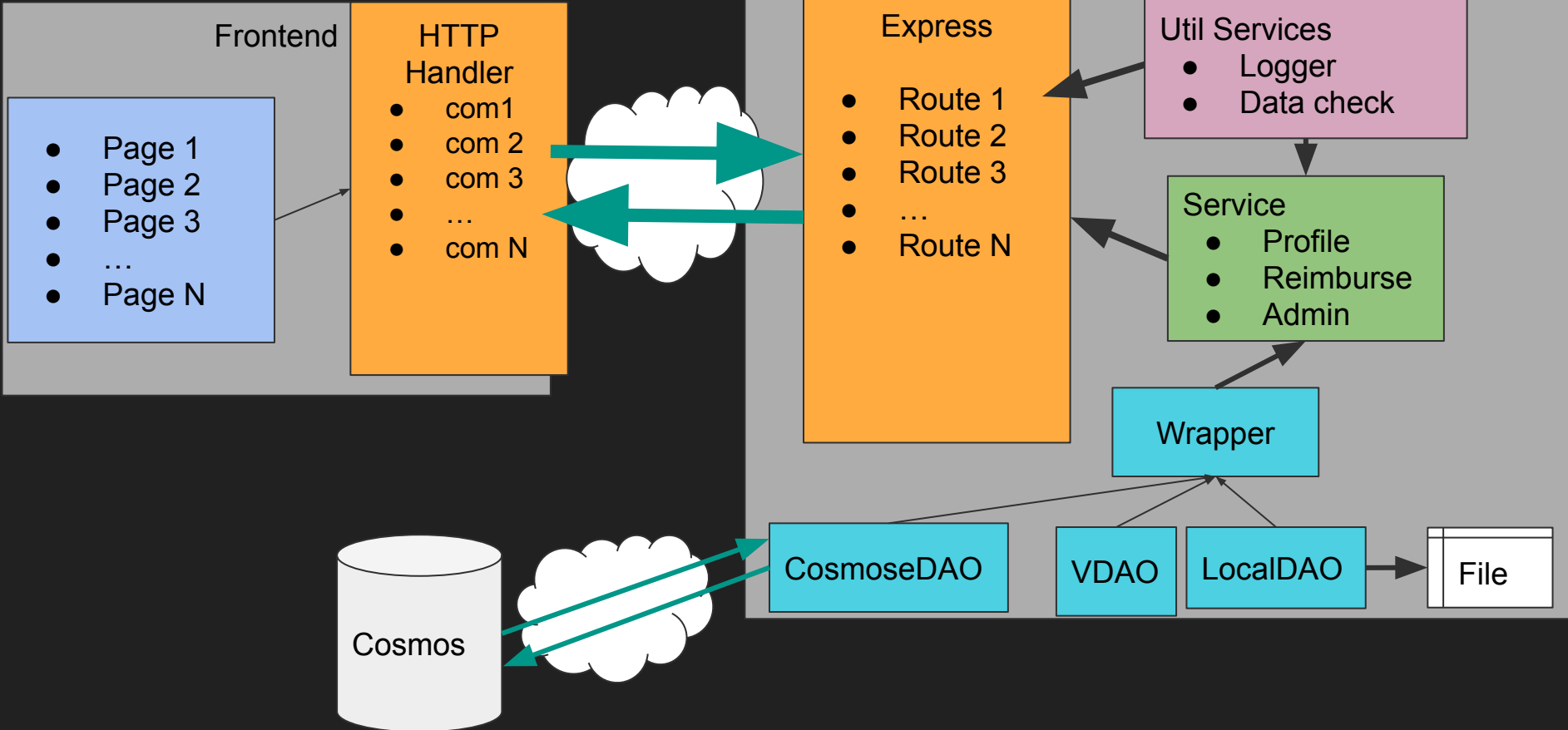
Structure



In app

- Statistic page
 - Frontend: request some records
 - Backend:
 - Grabs all reimbursements
 - Sums a total for each employee
 - Create a string array => `'${FirstName} {LastName} : {TotalSum}'`
 - Return this Array
 - Frontend: Display this string array
- If changed*
 - If the server sorts, the front end do NOTHING different
 - Multiple sorting behaviors can be used
 - All array are displayed in a row
 - The front end does not change
 - This is how Request View page works

Architecture design



Style Architecture design

- NO STYLING IN TOP LEVEL COMPONENTS!!!!
 - Created several basic component with specific parameters
 - Created some Enums
 - Text: Title, Header, General
 - Button: General, Close, Admin Tool
 - Input text
 - ...
 - From here the style for the component comes from a function
 - `StyleComponent(type) >>`
 - `{ color:GetColor(type), flex:1, padding:4, ...}`
 - `<Component style={ StyleComponent(type) } ... />`
 - This supports full app styling
 - All styling is done in a single StyleSheet configuration file
 - Different theme are 'swappable'
 - All color scheme are consistent
 - The only 'styling' in component is positioning
 - Only done by using View