



WHAT WE SUGGEST?

Every Code That We Develop as a Team is Facile

OBJECTIVES



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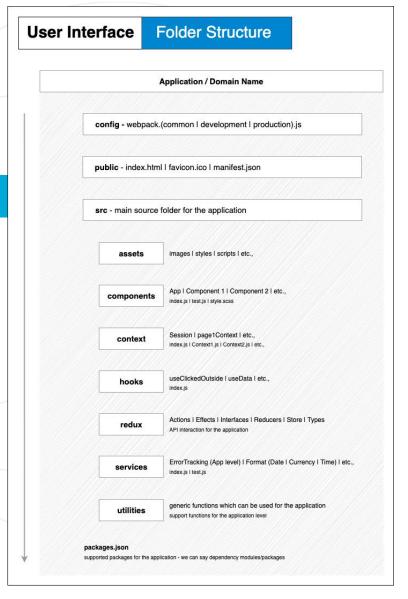
Existing Design of UI Architecture behavior for Large Scale Application (LSA)





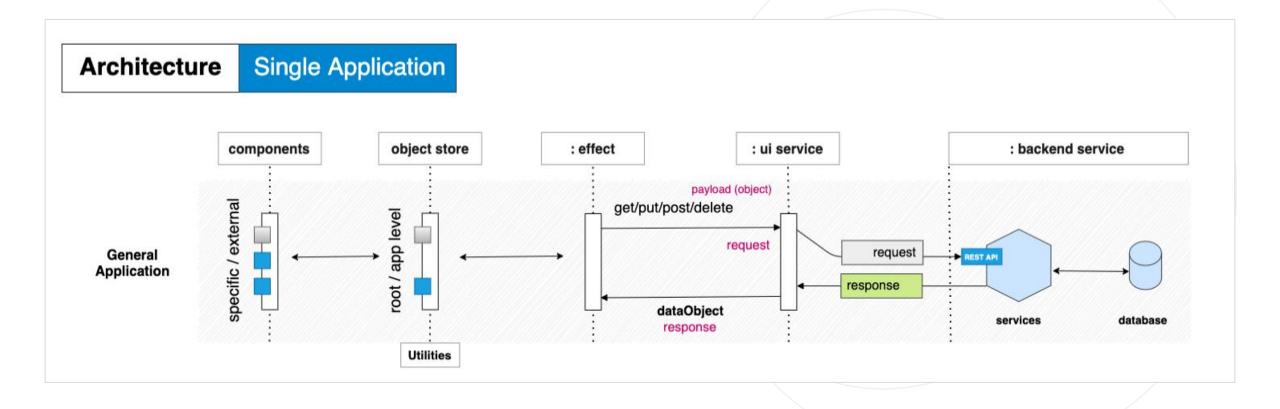
01

Many Organization have huge teams who get involved in designing high-end design applications. Executing the design systems, flexibility and efficiency in the coded behaviour is becoming little risker in the market standards. This is mainly due to the usage of MONOLITHIC approach which has been followed in the architectural standards of User Interface.



Existing Design of UI Architecture behavior for Large Scale Application (LSA)





Introduction to Micro-FrontEnd (MFE) Architecture





02

Micro-FrontEnd (MFE) architecture is a design approach on its own, in which the applications of front-end are decomposed into an independent application where we can call them Smaller Unit or Micros. And these applications are loosely working together. The name or the concept is inspired by micro-services.

A best-fitting example would be the RUBIK's CUBE where we can treat every block of color as an independent application and have enclosed inside one single unit which we can say as the shell.

Advantages of Micro-FrontEnd (MFE) Architecture





03

PRIMARY FOCUS

This architecture is mainly focused on the base skeleton elements which form the shell-based container mechanism and the relationships like how the segment / fragment / unit / component / module(s) (UI) are assembled and communicated to achieve the optimal developer and user experience.



MANAGIBILITY

Micro-frontend architectures by name are simpler and thus it's very easy to manage them



COLLABORATE

Independent teams can invest in the work and collaborate the applications more easily



APPROACH

Migrating the old application to a new application by stepwise approach is found easier

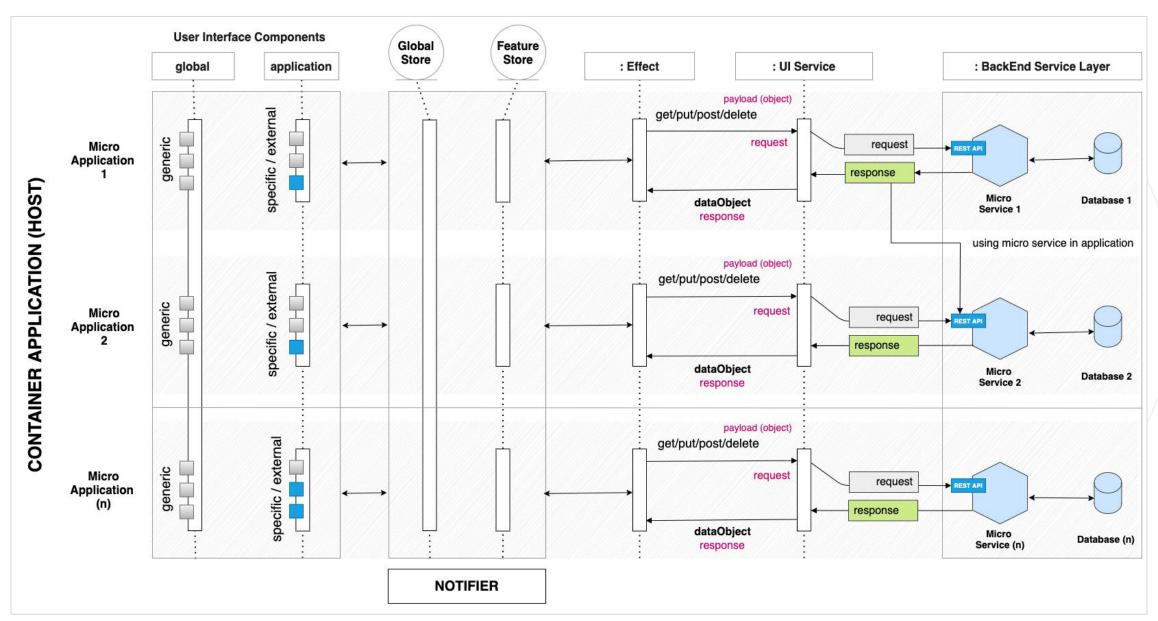


TEST & QUALITY

Testing the applications independently, Code Quality checks & Deployment of the applications are quicker

Advantages of Micro-FrontEnd (MFE) Architecture





Superpower's of Micro-FrontEnd (MFE) Architecture





04

SINGLE UNIT | LAZY LOADING (QUICK LOAD) | STORE MANAGEMENT

Micro-FrontEnd (MFE) is not claimed as the best architecture for all use cases. Only in some cases where we develop as independent applications by the teams and later tie them up, to adopt micro frontends. The main superpower generally goes with the shell bases approach with routing strategies where the independent applications are connected as one single unit.

Communication sometimes plays a major role with respect to the design pattern same independent application or cross applications and that is where we need to pick the data strategy of store mechanism.

Spanning the data across the application is generally performed or treated as a Global (root) store and independent application data transfer is named as a feature (application) store.

Demo of a Sample application using Micro-FrontEnd Architecture





05

What does this demo contain?

THREE INDEPENDENT REACT JS APPLICATIONS

ONE INDEPENDENT VUE JS APPLICATION

APPLICATION ONE

Shell Application - Container

APPLICATION THREE

Authentication – Sign Up & Sign In

APPLICATION FOUR

Dashboard which contains widgets

APPLICATION TWO

Module One with 2 pages

Demo of a Sample application using Micro-FrontEnd Architecture – Continued...





05

What you see is what you get

DEMO ON MICRO-FRONTENDS

Question and Answers





06

Best questions with quality answers

IT'S YOUR
TIME AND OUR ANSWERS



MICRO-FRONTEND's THANK YOU











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