# XT Coding Assignment

## Prerequisites :

## Code:

* Deployed stg Env : <http://poc9.herokuapp.com>
* Code: <https://github.com/kunalverma94/POC>

## Requirements

* Angular 9
* Node JS : Tested on 12v

## How to Run ? # Please run following commands in solution folder.

1. npm install
2. npm run build:ssr –production
3. npm start

# Angular Stack

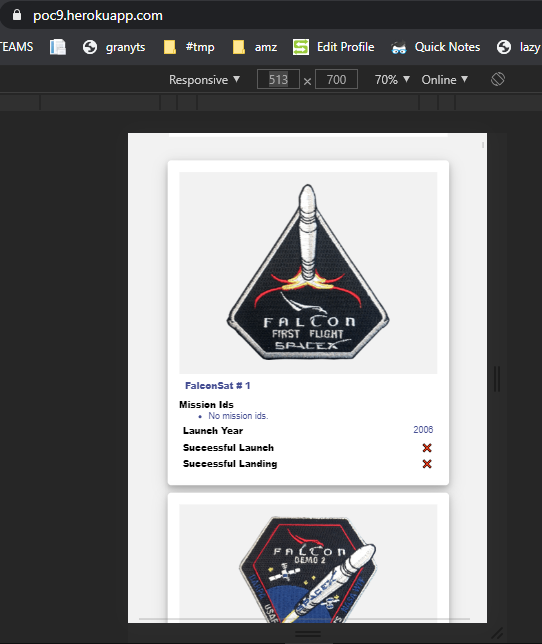
* UI
  + Custom Reusable Components
  + Generic component for Filter.
  + List Items
  + Lazy loading images to improve page load performance
  + Day/Night Mode
  + Organized project structure
  + Custom Pipe for boolean representation
  + Was going for pagination / lazy loading on scroll but not sure, if it defeats the purpose of assignment to render large amount of data?
* Style
  + Responsive App All manages in SCSS Breakpoint
  + Managed most of style using variable for maintainability Scss variables :colors ,measurements , variables
  + Custom Loading animation
  + CSS Grid Layout/Flex Used for maintaining responsiveness
* PWA
  + Service Worker for caching request/Resources
  + BaseService Implementation with Retry Strategy 5 time with interval of 5s
* Deployment
  + Continuous build pipeline on Heroku into staging
  + <http://poc9.herokuapp.com>
  + <https://github.com/kunalverma94/POC>
* SSR
  + Angular Universal for SSR

# TO-DO- Limited by Time

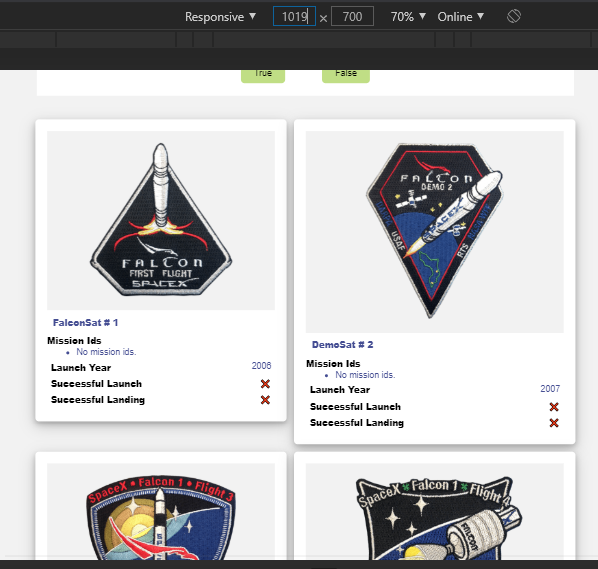
* Implementation much more efficient Service Worker
* Refactoring
* Added more testcases
* Modularizing
* Notifications /User Friendly Error messages

# Responsive

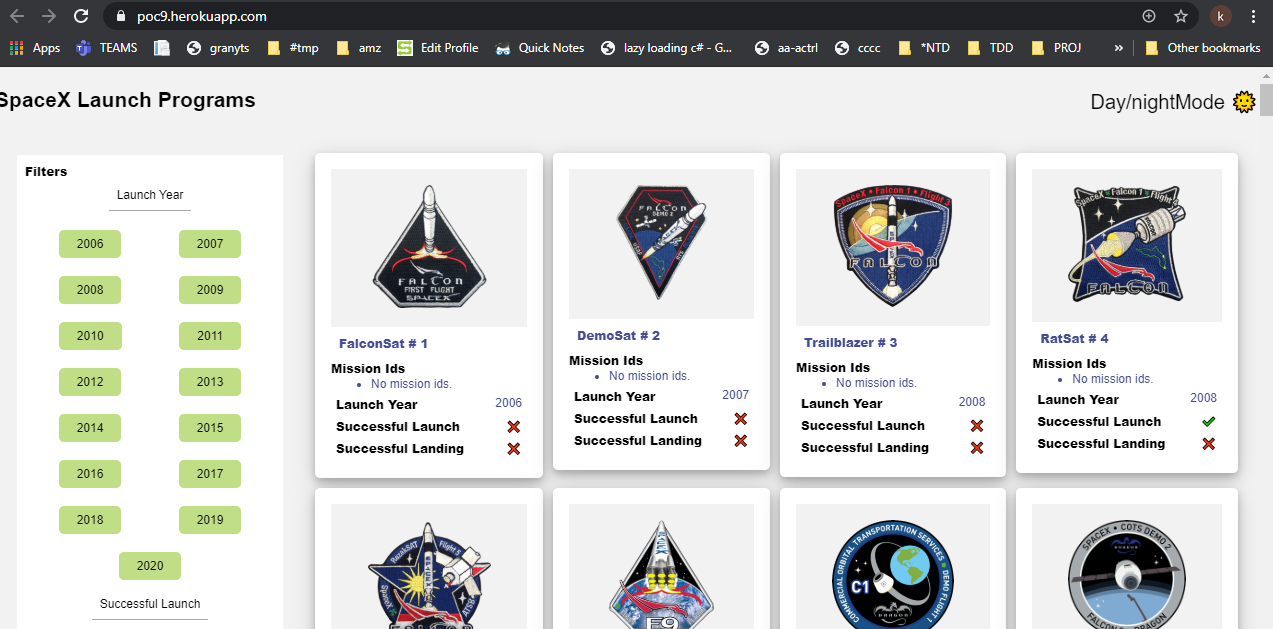
## Mobiles Less than 700

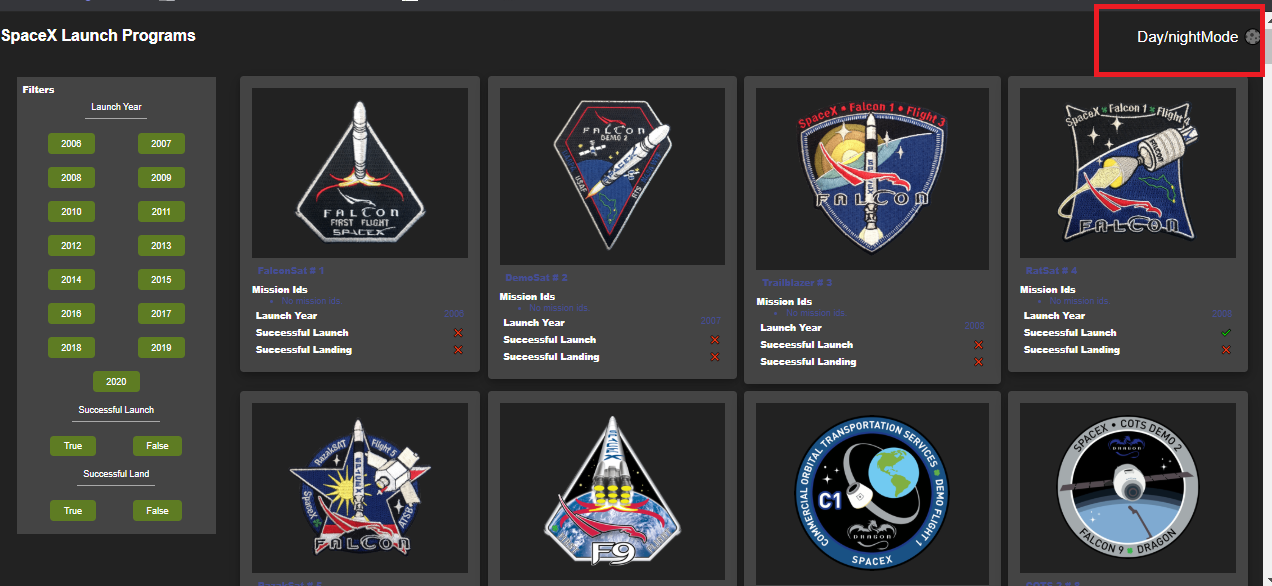


## Tablets: 700-1024



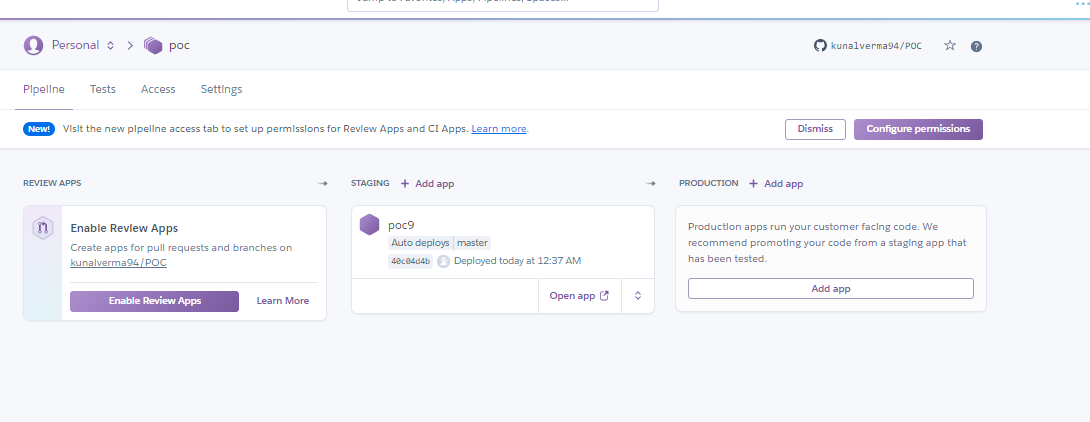
## PC wide Screen 1024-1440

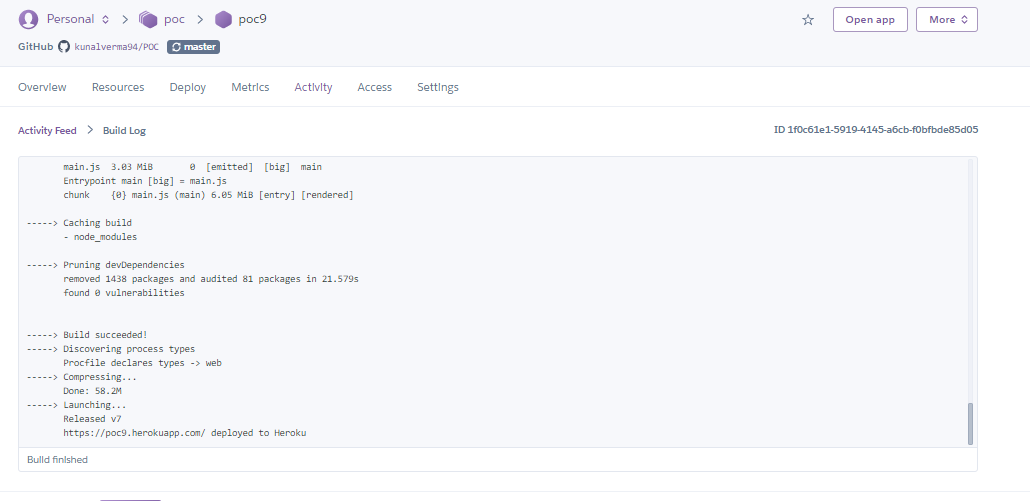




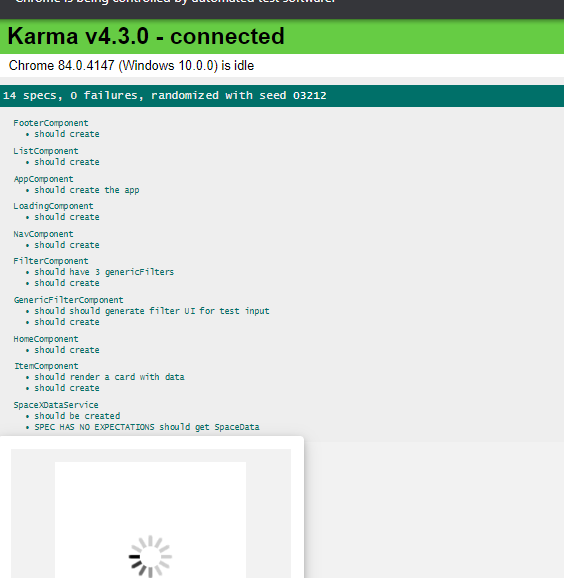
## Deployment

* Heroku :CI /CD





## Testing

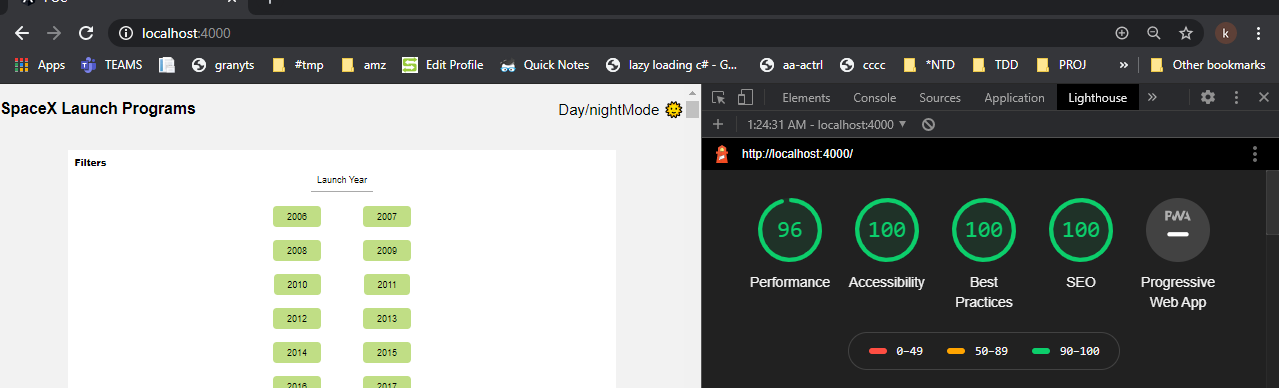


## LightHouse Test

The test showed better performance on local than on heroku server.

On Heroku varies from 66 -88 % ..avg :74%

Local



Staging Heroku

