



Building and Deploying



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Deploying and React App

1. Bulding React App

- It is the process of checking syntax errors
- Identifying the issues in dependencies
- Compile successfully
- Create a build ready for deployment

> npm run build

- Adds a new folder into project "build"

2. Deploying

- It is the process of making your application ready for client use.
- You can deploy on
 - a) Local Server
 - b) Cloud Server
- Local Server
 - XAMPP
 - MAMP
 - IIS
 - Apache Tomcat
- Cloud Server
 - firebase
 - git hub pages
 - aws
 - azure etc..

Windows IIS local server:

[Internet Information Services Manager]

1. Open IIS on your PC

run > inetmgr
search > iis

2. Create a new Virtual Directory [Website]

alias: reactshop
path: build folder



Add index.html into build

<http://localhost/reactshop>



1. Open firebase and login with your google account

<https://firebase.google.com/>

2. Go to console and create a new "Project"

Name : reactsmartshopdemo
Google Analytics : Continue
Account : Default account

Click on Create Project

3. Download and Install Firebase tools on your PC

```
C:\> npm install -g firebase-tools
```

4. Open your project in VS Code

5. Open Terminal and Login into firebase

```
>firebase login
```

6. Run the command

```
>firebase init
```

? Are you ready to proceed? Yes

? Which Firebase features do you want to set up for this directory?

[hosting]

Hosting: Configure files for Firebase Hosting and (optionally) set up GitHub Action deploys

[space bar to select]

> Use an existing project

? Select a default Firebase project for this directory: reactsmartshopdemo

? What do you want to use as your public directory? build

Configure as a single-page app (rewrite all urls to /index.html)? Y

Set up automatic builds and deploys with GitHub? N

Overwrite Index.html ? N



7. Deploy

**React182022**

React 7:30 PM

<https://reactsmartshopdemo.web.app>

Design PWA

- Progressive Web Application
 - App like experience in browser
 - Frameworks
 - a) Apache Cordova
 - b) Ionic
 - c) Native Script
 - d) React Native etc..
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**Class comments**