# **Day 1 – 5**

## What is React Native?

React Native is an open-source framework for building mobile applications. It's developed by Facebook and allows developers to use React (a popular JavaScript library for building user interfaces) to create native mobile apps for iOS and Android platforms.

Not HTML or webview

## Installing dependencies and setup server

# Create a new directory (or can make a project manually and use terminal in vs code)

**mkdir realtime-chat-app**

# Move into the new directory

**cd realtime-chat-app**

# Initialize a new package and install app dependencies

**npm init -y**

install specific packages

**npm install react react-dom next pusher pusher-js sentiment express body-parser cors dotenv axios**

**npm install express dotenv body-parser @pusher/chatkit-server cors date-fns @sendgrid/mail --save**

**OR** use this to install the app

**npx create-next-app@12 (name-of-project)**

# Move into the new directory

**cd realtime-chat-app**

npm install dotenv --save

npm install

npm run dev

## Create Pusher Account (Plus other chats)

<https://dashboard.pusher.com>

PUSHER\_APP\_ID=YOUR\_APP\_ID

PUSHER\_APP\_KEY=YOUR\_APP\_KEY

PUSHER\_APP\_SECRET=YOUR\_APP\_SECRET

PUSHER\_APP\_CLUSTER=YOUR\_APP\_CLUSTER

1. Create App with Pusher to generate keys
2. Create .env file in project and insert keys

[https://console.firebase.google.com/u/0/?\_gl=1\*5au76f\*\_ga\*MTU1ODAyNTAzNC4xNjk3NTQyMTA2\*\_ga\_CW55HF8NVT\*MTY5NzU0MjEwNy4xLjAuMTY5NzU0MjExMC41Ny4wLjA.&pli=1](https://console.firebase.google.com/u/0/?_gl=1*5au76f*_ga*MTU1ODAyNTAzNC4xNjk3NTQyMTA2*_ga_CW55HF8NVT*MTY5NzU0MjEwNy4xLjAuMTY5NzU0MjExMC41Ny4wLjA.&pli=1)

## Steps to building app

Dependencies

Modify the package.json file

Pusher account and generate keys

Create .env file (keys inside)

Create next.config.js

Create server.js

Create Layout.js

Create index.js

## Setting up the server

**/\* server.js \*/**

**const dotenv = require('dotenv').config();**

**const cors = require('cors');**

**const next = require('next');**

**const Pusher = require('pusher');**

**const express = require('express');**

**const bodyParser = require('body-parser');**

**const Sentiment = require('sentiment');**

**const dev = process.env.NODE\_ENV !== 'production';**

**const port = process.env.PORT || 3000;**

**const app = next({ dev });**

**const handler = app.getRequestHandler();**

**const sentiment = new Sentiment();**

**// Ensure that your pusher credentials are properly set in the .env file**

**// Using the specified variables**

**const pusher = new Pusher({**

**appId: process.env.PUSHER\_APP\_ID,**

**key: process.env.PUSHER\_APP\_KEY,**

**secret: process.env.PUSHER\_APP\_SECRET,**

**cluster: process.env.PUSHER\_APP\_CLUSTER,**

**encrypted: true**

**});**

**app.prepare()**

**.then(() => {**

**const server = express();**

**server.use(cors());**

**server.use(bodyParser.json());**

**server.use(bodyParser.urlencoded({ extended: true }));**

**server.get('\*', (req, res) => {**

**return handler(req, res);**

**});**

**server.listen(port, err => {**

**if (err) throw err;**

**console.log(`Ready on http://localhost:${port}`);**

**});**

**}**

**)**

**.catch(ex => {**

**console.error(ex.stack);**

**process.exit(1);**

**});**

## Modifying NPM Scripts

**/\* package.json \*/**

**"scripts": {**

**"dev": "node server.js",**

**"build": "next build",**

**"start": "NODE\_ENV=production node server.js"**

**}**