ByteLog

DEVELOPER'S SET UP INSTRUCTIONS

By Bytes Team

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PROJECT SUMMARY

The BytesLog app is developed with the React Native framework using Expo Go and Expo CLI. Jest [1]and React Native Library are the libraries applied for the creation of automated testing suites. Some of the system backend functions are supported by Firebase services. The app is deployed using Expo EAS build and can be accessed with Expo Go.

[1] Jest library is configured in the `package.json` file of the project

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TOOLS AND TECHNOLOGY

This section will contain information of the various tools and technology used for the development of the BytesLog mobile app. Each tool will contain links to documentation and installation guides to aid in setting up the development environment.

Node JS

Node JS contains npm[2], a package manager for the JavaScript programming language, alongside npm CLI, the command-line tool for using npm. These are used to manage packages and run many commands of the project.
Version:

- Node JS:18.14.0
- npm: 9.6.2

Installation guide:

1. Download file according to operating system from website Node JS[3] website
2. Set up according to on screen instructions

Yarn

Yarn[4] is an alternative package manager for npm.
Version: 6.3.2
Installation guide:

1. Install Yarn using NPM.

```
npm install -g yarn
```

2. Verify the installation

```
Yarn --version
```

Expo CLI

Expo CLI[5] is a command-line tool that is used as the primary interface between a developer and other Expo tools.
Version: 6.3.2
Installation guide:

1. Install Expo CLI using npm in the terminal

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[2] Node Package Manager (*npm*) documentation : https://docs.npmjs.com/cli/v9/commands
[3] Node JS website : https://nodejs.org/en/download
[4] Yarn documentation : https://yarnpkg.com/
[5] Expo CLI documentation : https://docs.expo.dev/get-started/installation/

```
npm install -g expo-cli
```

2. Alternatively, install Expo CLI using Yarn in the terminal

```
yarn add global expo-cli
```

3. Check package list to confirm installation

```
npm list -g
```

EAS CLI

EAS CLI[6] is the command-line app that will be used to interact with EAS services from the terminal.
Version: 3.8.0
Installation guide:

1. Install the EAS CLI using npm in the terminal

```
npm install -g eas-cli
```

2. Alternatively, install EAS CLI using yarn command in the terminal

```
yarn add eas-cli
```

3. Check package list to confirm installation

```
npm list -g
```

Expo Go

Expo Go is a mobile application that allows users to open up apps served through Expo CLI and run projects faster during development.
Version: latest
Installation guide:

- Android Play Store[7] - Android Lollipop (5) and greater
- iOS App Store[8] - iOS 13 and greater

Application instructions:

1. Run server of an existing app using this Expo CLI command in the terminal

```
npx expo start
```

[6] Expo EAS documentation : https://docs.expo.dev/build/introduction/
[7] Android Play Store link : https://play.google.com/store/apps/details?id=host.exp.exponent
[8] IOS App Store link : https://apps.apple.com/app/expo-go/id982107779

Image 1, QR code generated in the terminal after starting development server

2. IOS - use phone's camera to scan the generated QR code in terminal
3. Android - use Expo Go "scan QR code" feature to scan the generated QR code in terminal

Git

Git[9] is a code repository version control system.
Version: 2.40.0 (or any other latest version)
Installation guide:

1. Download file according to operating system from Git[10] website
2. Set up according to on screen instructions

Firebase

Firebase[11] is a set of backend cloud computing services and application development platforms provided by Google. BytesLog uses its database, storage and authentication services to support some of the application features.
Version: 9.17.1
BytesLog firebase[12]
Installation guide:

- Firebase settings and configurations are defined in `firebaseConfig.js.`
- The Firebase package is included in `package.json`, where all package dependencies of the project are configured.

[9] Git documentation : https://git-scm.com/docs
[10] Git website : https://git-scm.com/book/en/v2/Getting-Started-Installing-Git
[11] Firebase Expo set up documentation : https://docs.expo.dev/guides/using-firebase/
[12] BytesLog Firebase link : https://console.firebase.google.com/u/1/project/newbyteslog/overview

Edaman

Edaman[13] is a food and recipe database API that the BytesLog app uses to provide users with a diverse food and recipe options. The team created a developer account on the website to generate API credentials.
API Credentials:

- Food Database API:
  - Name: API signup
  - ID: 019d4b3d
- Recipe Database API:
  - Name: Bytes app
  - ID:76b0e5c0

Installation guide:

- The credentials informations are hardcoded to the methods in `provider.js` within the api src folder

PROJECT SETUP AND DEPLOYMENT

This section will contain details of how one might set up the project for continued development and how to deploy the application into a production environment. There will be instructions on performing common tasks.

Set up instructions

1. Clone project repository using this terminal command

```
git clone https://github.com/labdhimehta25/Bytes.git
```

2. Navigate to the app directory ./Bytes/BytesApp

```
cd Bytes/BytesApp
```

3. Install all dependencies using npm

```
npm install
```

4. Alternatively, install dependencies using Yarn

```
yarn
```

5. Start app server

```
npx expo start
```

Automatic testing instructions

1. Navigate to the app directory ./Bytes/BytesApp

[13] Edaman API documentation : https://developer.edamam.com/admin/applications

```
cd Bytes/BytesApp
```

2. Run automated test suites

```
npm run test -- -u
```

3. Alternative command: run automated test suites and generates HTML coverage report

```
npm run test -- --coverage
```

4. Alternative command: run one specific test suite

```
npm run test -i <test_suite_name>.test.js
```

Deployment instructions

1. Create Expo Account on Expo[14] website
2. Navigate to the app directory ./Bytes/BytesApp

```
cd Bytes/BytesApp
```

3. Log into Expo account on terminal

```
npx eas login
```

4. Configure the project

```
npx eas build:configure
```

5. Deploy app to Expo App Store

```
npx eas update
```

6. Access update links with IOS and Android preview QR codes

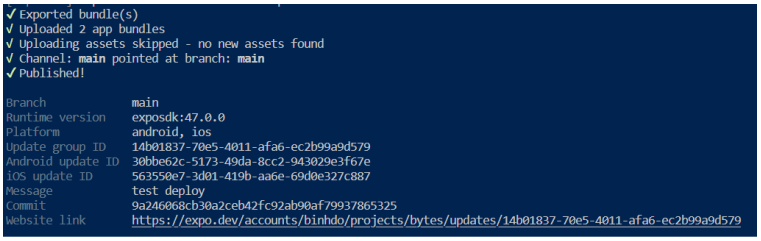

Image 2. Generated link in terminal after deploy command

7. Use Expo Go app to run deployed app

[14] Expo website : https://expo.dev/