

Privv

Truly Private Messaging App



PBL II Group No. 43



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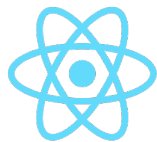
1.

Identification of Engineering Tools

React Native / Pycryptodome

React.JS - In order to build dynamic applications, knowledge of React or a similar library is critical. We chose React due to its prevalence in the current ecosystem.

Pycryptodome - Cryptographic library for Python



React Native

&



Moralis Server

With the help of Moralis Web3 development platform, we can create both web dApps and mobile dApps in minutes. Moralis SDK was designed with cross-chain interoperability, thus it enables you to deploy dApps across multiple chains and therefore, future-proof the developments.



Ethereum Mobile

To simplify and shorten the development process of creating Ethereum dApps for smartphones, Moralis created the ultimate Ethereum mobile boilerplate.



2.

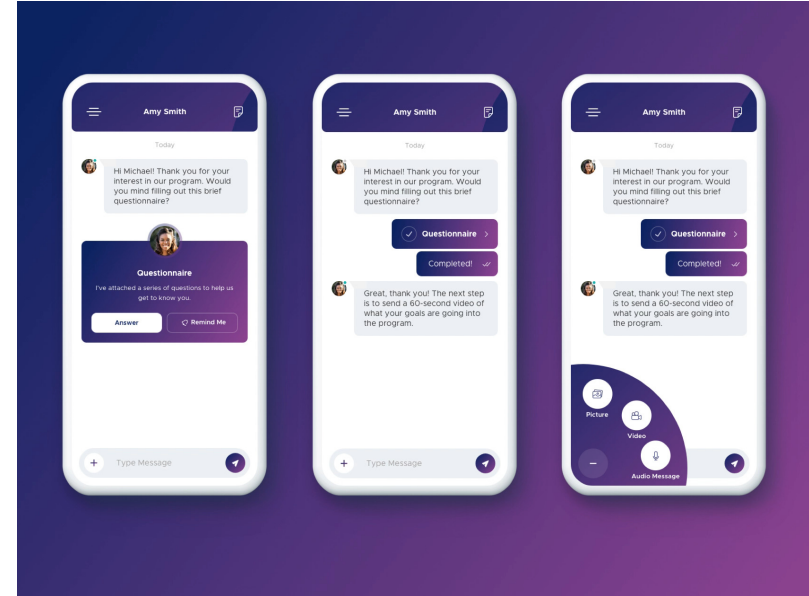
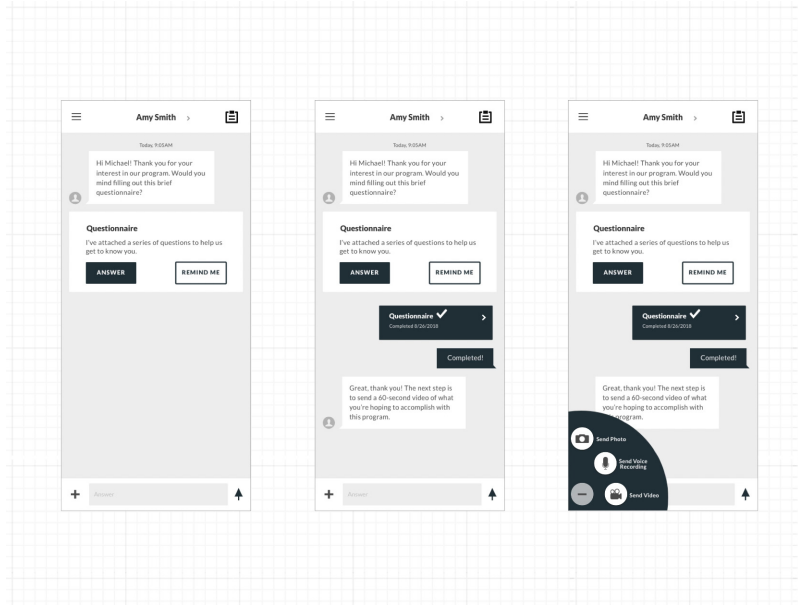
Designing and development using Modern Tools



We'll be using **Figma** for designing the application interface and experience. It's is a free digital design and prototyping tool for UI/UX design. Its primary use is for the creation of websites, apps, and small user interface components as they integrate with other projects.

- Works on Any Platform
- Real-time Collaboration
- Sharing is Flexible
- Developer Handoff is Facilitated
- Third-party Tool Integration

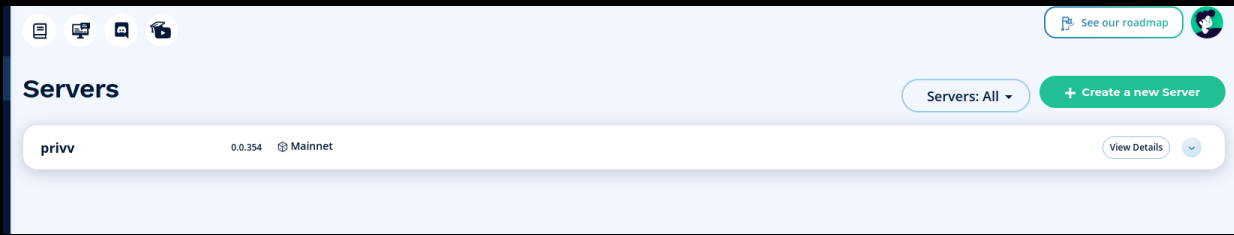
Application Wireframing & Designing





The **Visual Studio Code** editor supports React.js IntelliSense and code navigation out of the box.

- No need to develop separately for Android & iOS.
- Easy to Maintain big project.
- Proficient Data binding



Moralis Server Creation

```
.env X
ethereum-boilerplate > .env
1 # Mandatory info for starting the app
2 REACT_APP_MORALIS_APPLICATION_ID = St987w2LVluPNjb1UjLAnEC0bLJLYeJsSbatz802
3 REACT_APP_MORALIS_SERVER_URL = https://ha8tbi4rqd3g.usemoralis.com:2053/server
4
```

Initializing Moralis Server



Cloud Functionalities

3.

Understanding System Architecture

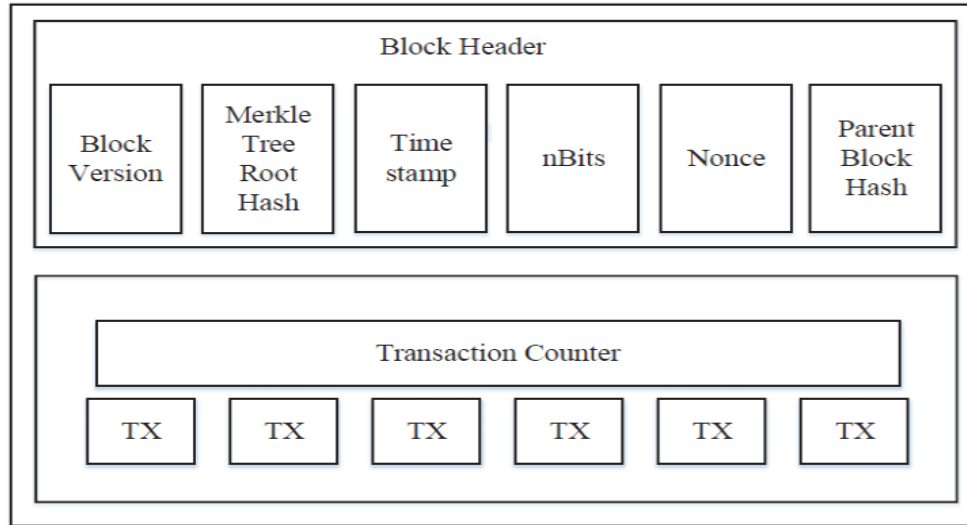
Block



A single block body is composed of a **transaction counter** and **transactions**. The maximum number of transactions that a block can contain depends on the block size and the size of each transaction.

Blockchain uses an asymmetric cryptography mechanism to validate the authentication of transactions. Digital signature based on asymmetric cryptography is used in an untrustworthy environment.

Block



4.

Project Demonstration

Thank You!

