

# **Full Stack Product Development Course**

*Build An End-To-End Minimum Viable Product In 20 Weeks.*

## **COURSE CURRICULUM**



**The Informal School Of IT**

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## **PART 1/2: Weeks 1-10**

### **Weeks 1-2: Product Landing Page (2 Weeks)**

*New Concepts/Technologies: AWS, Google Cloud, Twitter, Medium, Mailchimp, DNS, S3, Route53, Copywriting, Newsletter, HTML, CSS, JavaScript, Blogging*

- Setting up online accounts
- Setting up the main domain
- Setting up the newsletter
- Simple landing page
- Containing a newsletter form
- And initial value proposition and copy
- Marketing (pre)launch
- 1<sup>st</sup> blog post

### **Weeks 3-5: UI-Functional Mobile App (3 Weeks)**

*New Concepts/Technologies: React Native, Flexbox, iOS, Android, XCode, Android Studio, TestFlight, Apple Developer Portal, Simulators*

- Setting up React Native
- Basic App Screen Skeleton
- Implementing the main App Screens and flows
- UI-Functional Only (no data, no backend)
- First Demo
- Build sent to first beta users
- Update landing page
- 2<sup>nd</sup> blog post
- 1<sup>st</sup> Newsletter

### **Weeks 6-8: UI-Functional Web App (3 Weeks)**

*New Concepts/Technologies: React, Single Page App, React Router, Webpack, npm*

- Setting up React
- Implement dashboard layout
- Basic App screen skeleton
- Implementing the main app screens and flows
- UI-Functional Only (no data, no backend)
- Web demo
- Update landing page
- 3<sup>rd</sup> blog post



## **Weeks 9-10: Local API (2 Weeks)**

*New Concepts/Technologies: Node.js, Express, JWT, REST, MongoDB*

- Setup Node locally
- Setup MongoDB
- Create API endpoints
- Create model
- Add token-based authentication
- Deploy locally
- API Demo
- 4<sup>th</sup> Blog post
- 2<sup>nd</sup> Newsletter

## **Halfway Checkpoint**

*New Concepts/Technologies: Presentation, Public Speaking*

- Demos
- Discussions
- Feedback



## **PART 2/2: Weeks 11-20**

### **Weeks 11-12: Public API (2 Weeks)**

*New Concepts/Technologies: Linux, Security, Nginx, pm2, EC2*

- Launch a Linux server
- Configure the server for security
- Setup Nginx and pm2
- Deploy the API into the public environment
- 5<sup>th</sup> Blog post

### **Weeks 13-15: Fully Functional Mobile App (3 Weeks)**

*New Concepts/Technologies: Redux, Mobile Networking, Mobile Data Persistence*

- Implement Redux in React Native
- Integrate client with API
- Add authentication flow
- Alpha Mobile Release
- Demo
- Send build to Beta Testers
- Update Landing Page
- 6<sup>th</sup> Blog post
- 3<sup>rd</sup> Newsletter

### **Weeks 16-18: Fully Functional Web App (3 Weeks)**

*New Concepts/Technologies: Web Networking, Web Data Persistence*

- Implement Redux in React
- Integrate client with API
- Add authentication flow
- Alpha Web Release
- Demo
- Update Landing Page
- 7<sup>th</sup> Blog post

### **Weeks 19-20: API (2 Weeks)**

*New Concepts/Technologies: Performance, Optimization*

- Add production environment
- Improve mobile and web apps as per alpha feedback
- Demo



- Update Landing Page
- 8<sup>th</sup> Blog post
- 4<sup>th</sup> Newsletter

### **Final Checkpoint**

- Demos
- Discussions
- Feedback