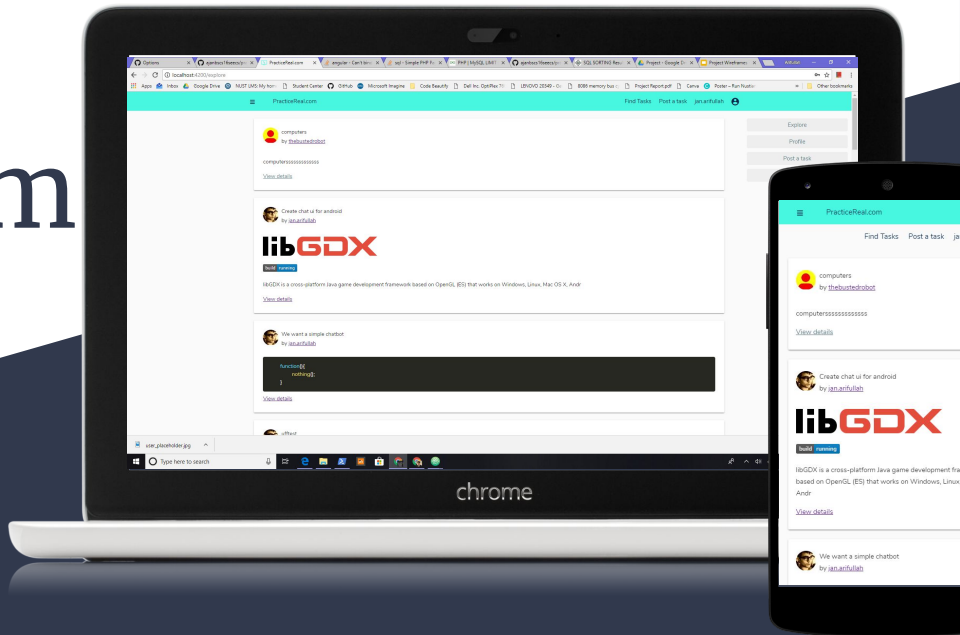


Project PracticeReal.com

Problem statement and
solution proposal



Outline

The Problem

Solution Proposal

Our Effort

Code Design

The Problem





Problem statement

What people do today

From decades the students of universities and colleges solve trivial problems from textbooks which have no link with professional life. So when they go in there profession they don't know how to deal with real life scenarios in their respective professions.

Learning by studying long solved problems...
Gap between industry and education institutions

Solution Proposal

We are building a platform where we connect the industries having loads of technical, business, IT and mathematical problems. The students who want to have a practical experience in their field, solve them for free.

Solve Real 01

Learn by solving
real world,
trending problems
in the industry.

-no need to learn
by reinventing the
wheel.



Find Solutions

02

Industry gets
simple or
independant tasks
done for free.

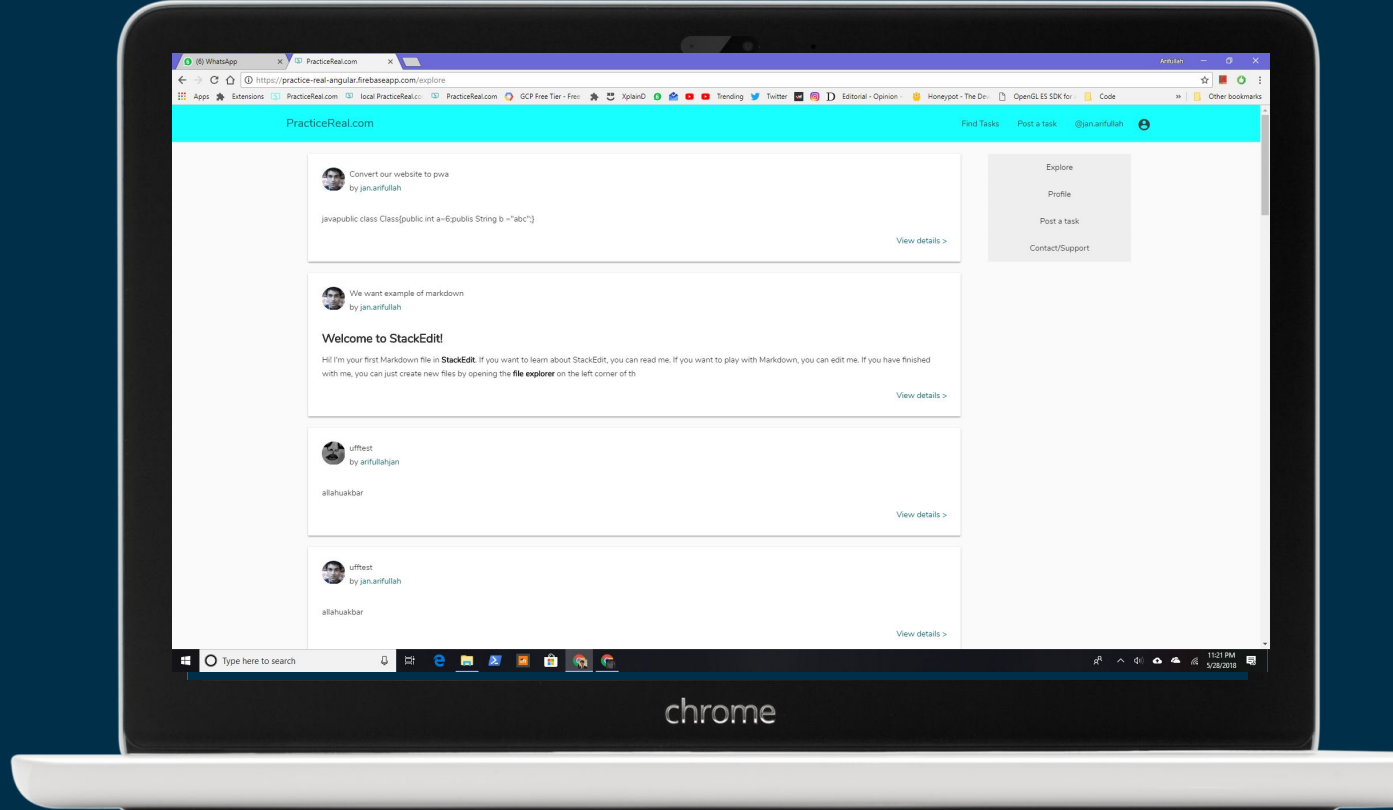


Both happy...
03

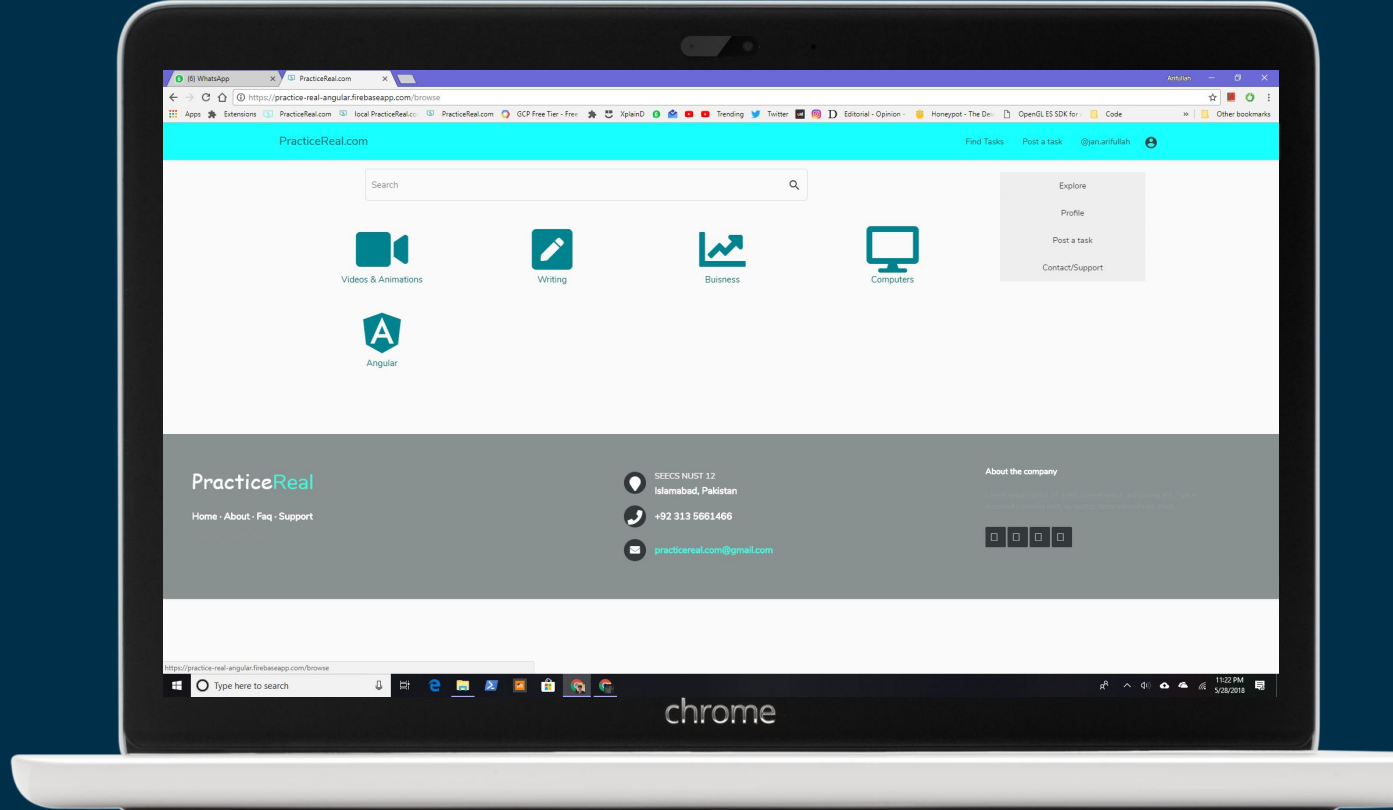


Desktop

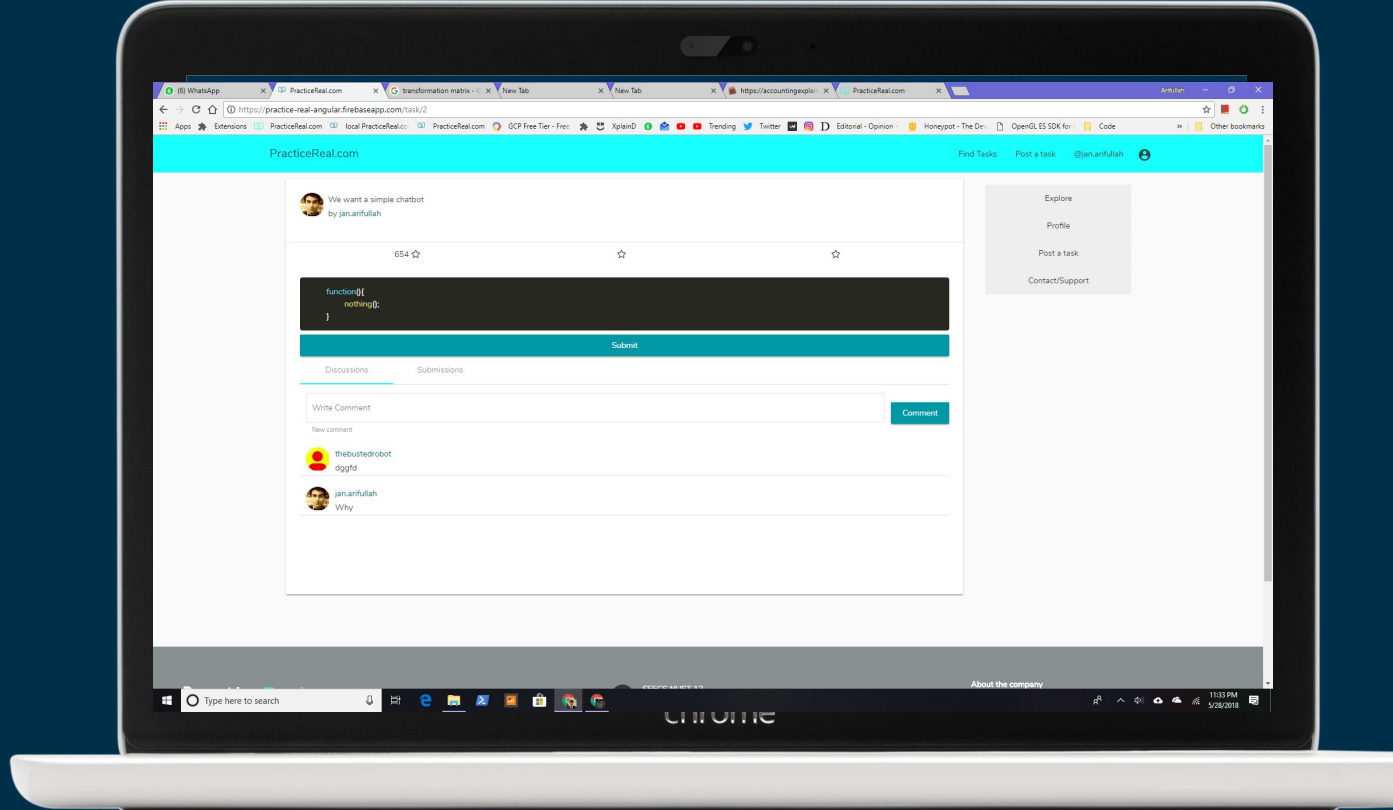
- Single page application
-



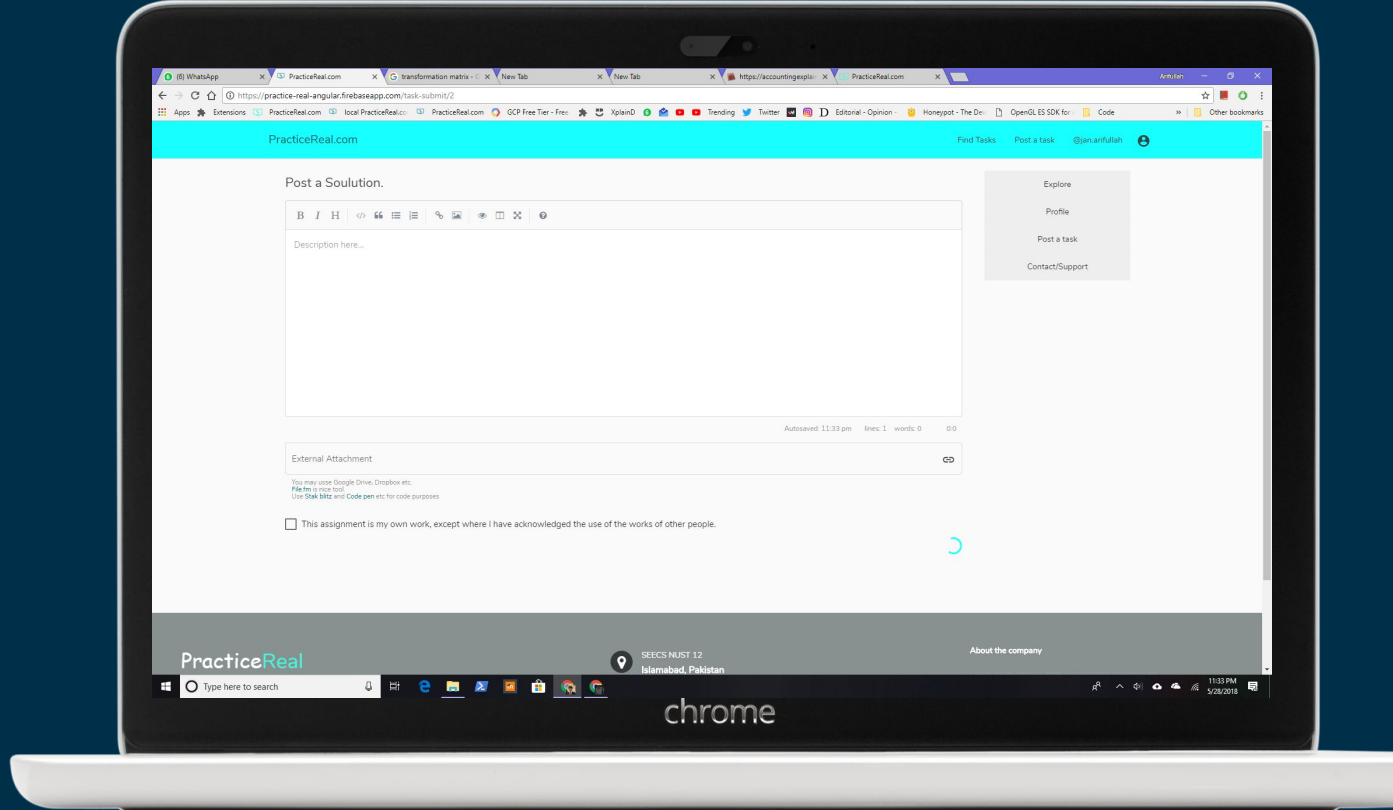
/explore or /explore/:tag
Task feed for all users
public



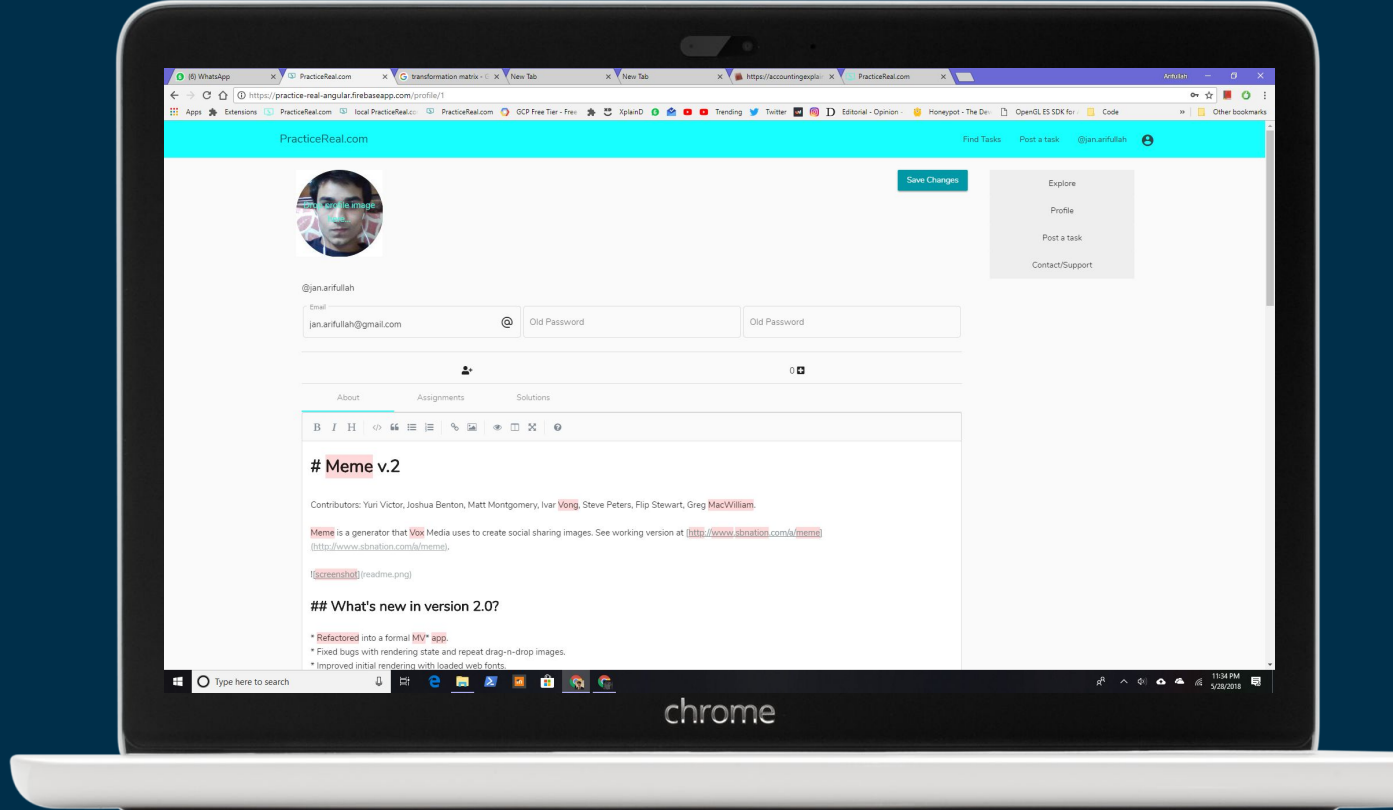
/browse
Search tag etc



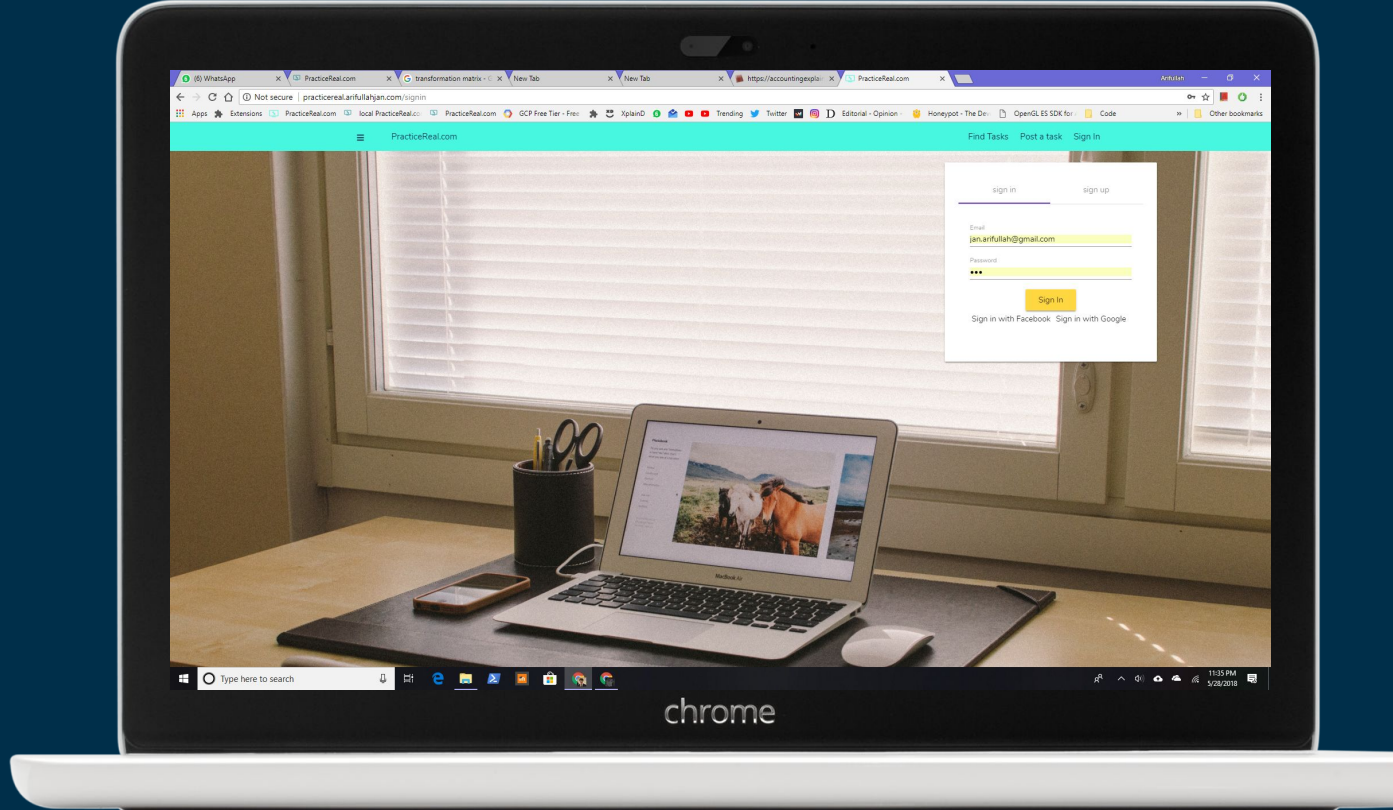
/task/:id
Task detail



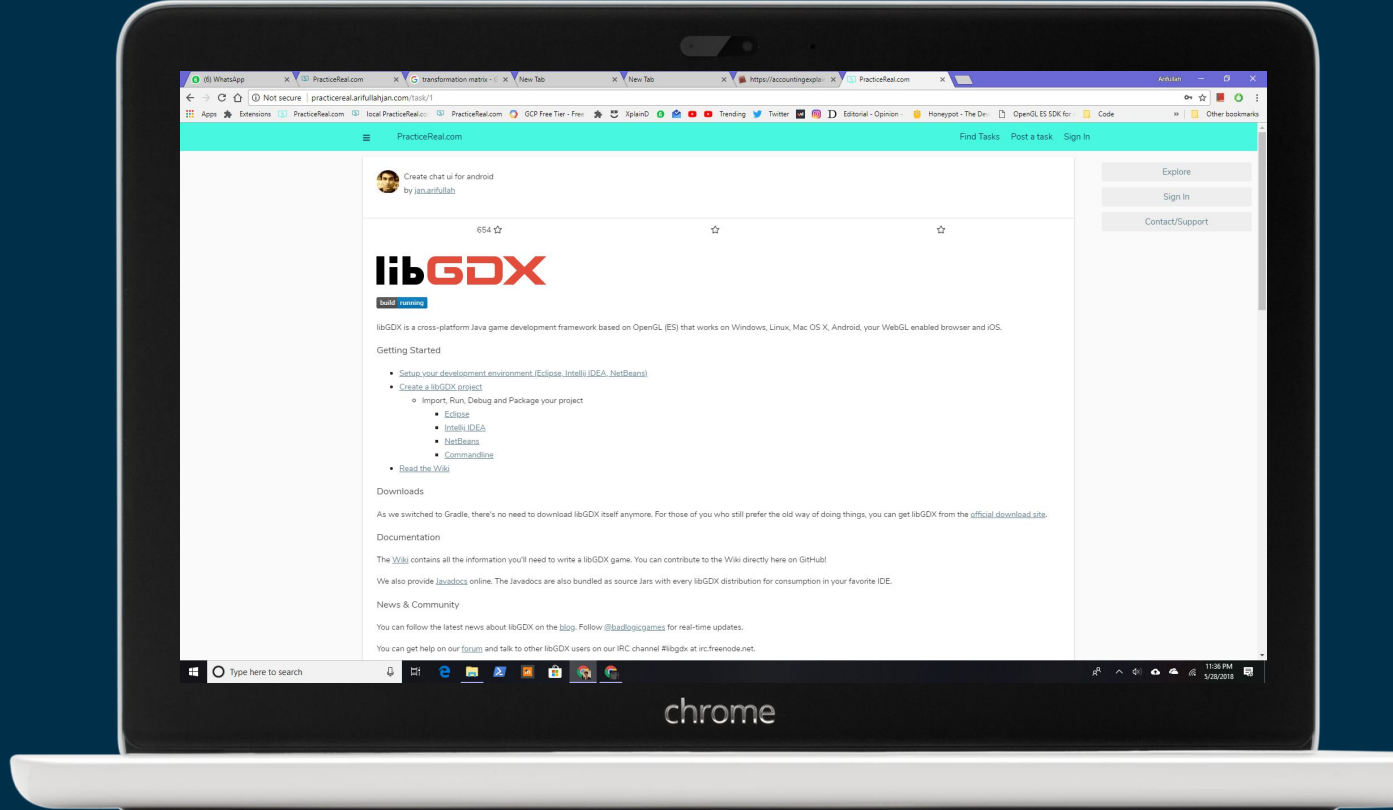
/task-submit/:id
Post a solution to a task



/profile/:id
Editable for own profile



/signin

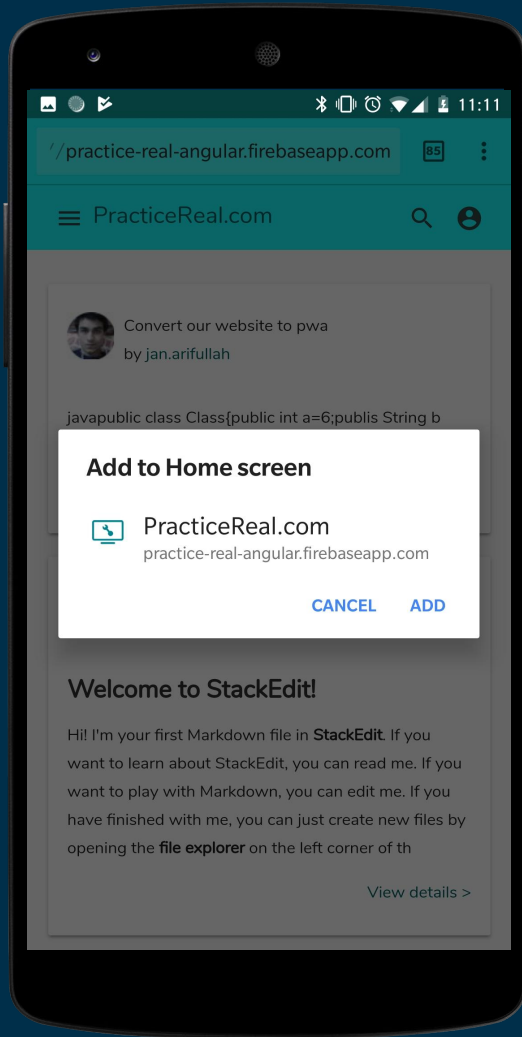


Markdown

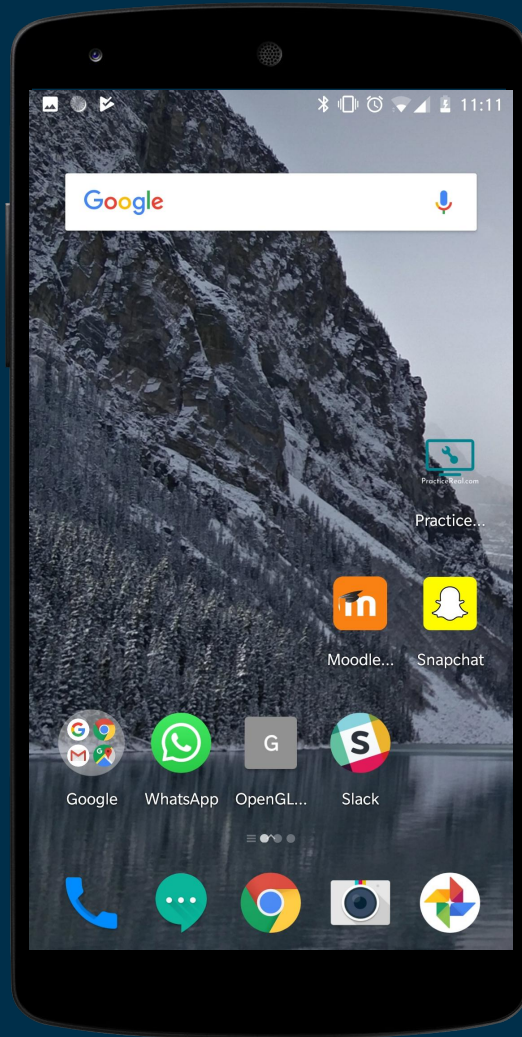
Mobile



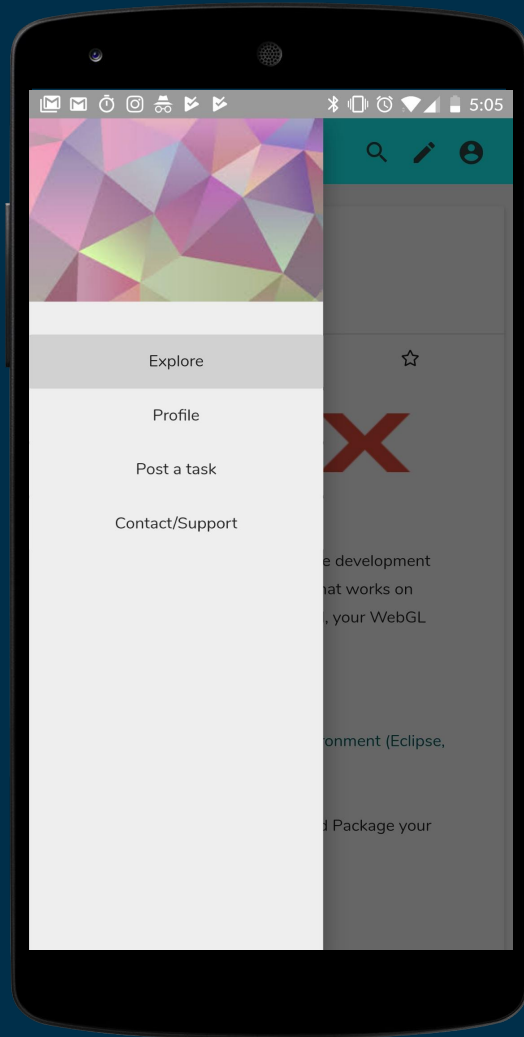
Progressive Web App



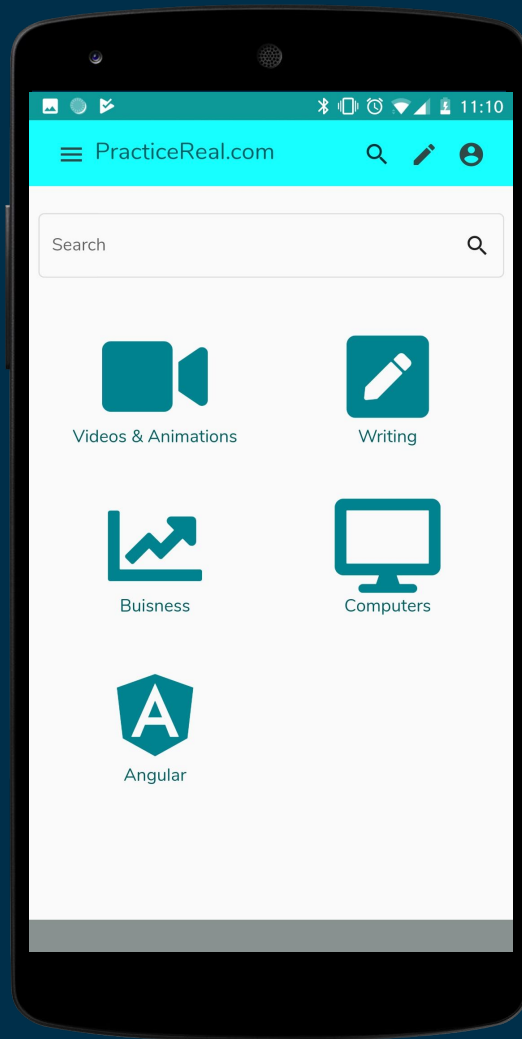
It behaves like a native app.



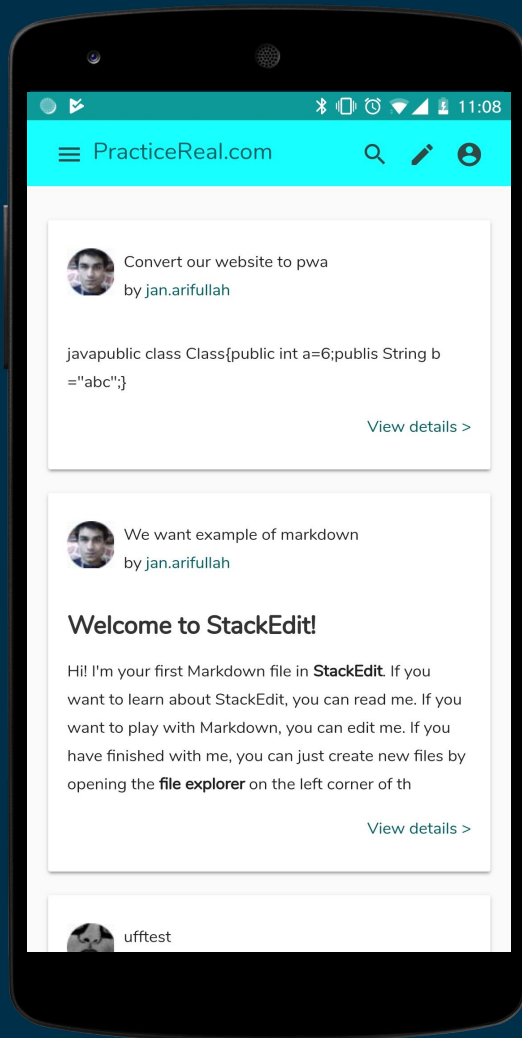
Navigation menu
for more native
behaviour



responsive



cards...



New task

The image shows a smartphone screen displaying the PracticeReal.com app. The app has a teal header bar with the title 'PracticeReal.com' and icons for search, edit, and user profile. Below the header, there are input fields for 'Title' and 'Tags...'. A rich text editor follows, with a toolbar containing icons for bold (B), italic (I), highlight (H), code (</>), quote (”), list (bulleted and numbered), link, image, and eye. A question mark icon is also present. The main text area contains the placeholder 'Description here...'. At the bottom of the editor, a status bar shows 'Autosaved: 11:09 pm', 'lines: 1', 'words: 0', and '0:0'. Below the editor is an 'External Attachment' section with a link icon. At the very bottom, a note reads: 'You may use Google Drive, Dropbox etc. [File.fm](#) is nice tool.'

PracticeReal.com

Title

Tags...

B *I* **H** | </> “ ” | ☰ ☷ | 🔗 🖼️ 👁️ | ?

Description here...

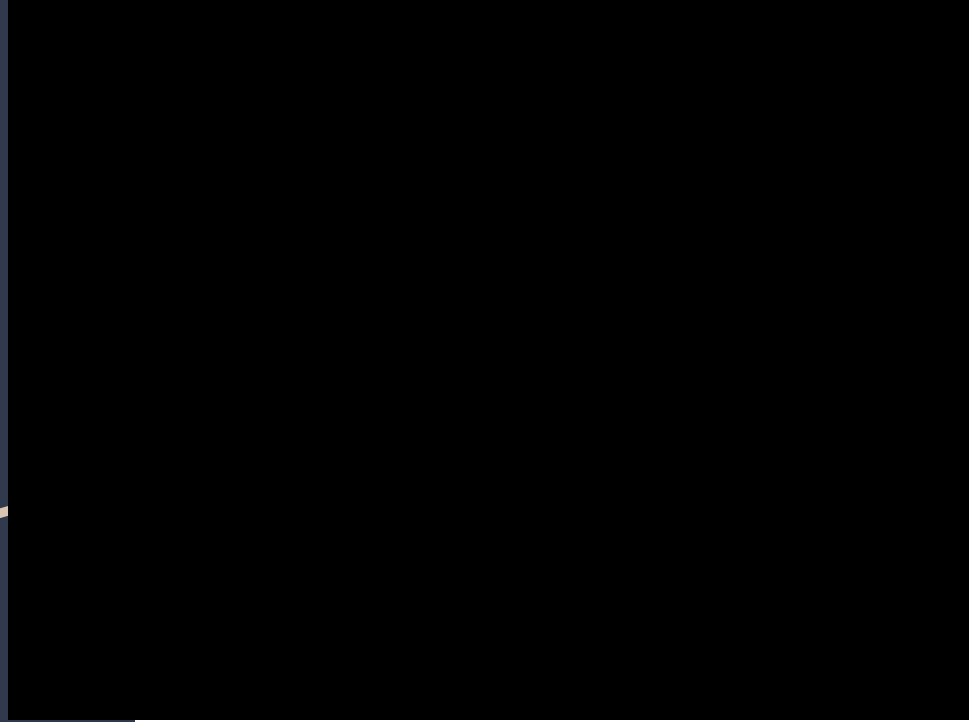
Autosaved: 11:09 pm lines: 1 words: 0 0:0

External Attachment 🔗

You may use Google Drive, Dropbox etc. [File.fm](#) is nice tool.

Responsiveness

Icons instead of
text in mobiles



Project

- Angular 6
- PhP
- HTML/CSS
- Typescript and javascript

Libraries and services used:

- Cloudinary
- Angular Material
- Simple MDE
- Markdown
- Highlight.js

Design Architecture

- Back End
 - Loosely coupled
 - REST api (returns json)
- Front End
 - MVC
 - Component: (3 files)
 - Template
 - Design (optional)
 - View (ts)
 - Service
 - Responsible for service communication
etc
 - Dependency injection

Optimizations

- NoSQL in mysql
- Stored some fields in json
- Added redundancy for optimizations
 - Task contains username, profile picture, etc
- No searching with “%something%”
- authentication...

Authentication

- Didn't use php sessions
- Gave user an encrypted token containing sufficient data.
- Token is required for some endpoints.
- We trust the token.
- No need to query database for authentication.

Tools

- Angular 6
- PhP
- HTML/CSS
- Typescript and javascript

Thankyou!

noQuestions?