

ACTIVITY1

Requirements:

You are required to deliver a REST service, that provides an interface for submitting a set of GitHub repositories (identified as a list of strings of the form “username/repositoryname”). Your service should identify the set of GitHub developers who have contributed to any of these repositories in 2018, and for this user set, provide an ordering that ranks these users according to one of the following criteria:

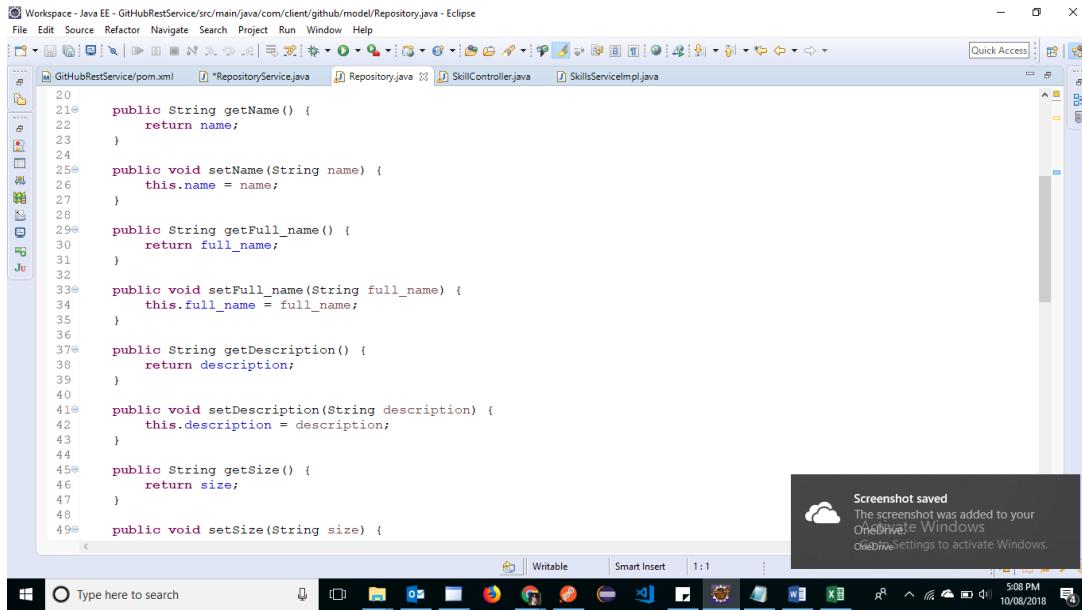
1. Total number of commit contributions to any project to which a user has contributed.
2. Total number of commit contributions as above, but restricted to projects that are members of the original submitted set.
3. The number of known programming languages for each user (presuming that the languages of any repository committed to are known to the user)
4. The weekly commit rate of users (provide a weekly rank ordering) for the submitted project set, for 2018.
5. The average commit rate of each user to any project, for 2018.
6. The total number of collaborators in 2018 (ie. a count of other users who have contributed to any project that the user has contributed to).

Your rest service should email the results of calculation to the submitter once complete. You may design the REST API of your service as you see fit. You must describe it in your report. Your service must be capable of accepting concurrent requests.

You should provide a report detailing the architecture of your solution, and detailing results of the execution of your solution over a set of at least 5 repositories.

Step 1

Creating Model class to display the required values



```
20 public String getName() {
21     return name;
22 }
23
24 public void setName(String name) {
25     this.name = name;
26 }
27
28 public String getFull_name() {
29     return full_name;
30 }
31
32 public void setFull_name(String full_name) {
33     this.full_name = full_name;
34 }
35
36 public String getDescription() {
37     return description;
38 }
39
40 public void setDescription(String description) {
41     this.description = description;
42 }
43
44 public String getSize() {
45     return size;
46 }
47
48 public void setSize(String size) {
```

Workspace - Java EE - GitHubRestService/src/main/java/com/client/github/model/Repository.java - Eclipse

```
File Edit Source Refactor Navigate Search Project Run Window Help
Quick Access
GitHubRestService/pom.xml RepositoryService.java Repository.java SkillController.java SkillsServiceImpl.java
1 package com.client.github.model;
2
3 import java.io.Serializable;
4
5 public class Repository implements Serializable{
6
7     private String name;
8     private String full_name;
9     private String description;
10    private String size;
11    private String language;
12    private String has_issues;
13    private Date created_at,updated_at,pushed_at;
14    private int watchers_count;
15
16    public Repository() {
17        // TODO Auto-generated constructor stub
18    }
19
20    public String getName() {
21        return name;
22    }
23
24    public void setName(String name) {
25        this.name = name;
26    }
27
28    public String getFull_name() {
29        return full_name;
30    }
31 }
```

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Go to Settings to activate Windows.

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Workspace - Java EE - GitHubRestService/src/main/java/com/client/github/model/Repository.java - Eclipse

```
File Edit Source Refactor Navigate Search Project Run Window Help
Quick Access
GitHubRestService/pom.xml *RepositoryService.java Repository.java SkillController.java SkillsServiceImpl.java
38     return description;
39 }
40
41 public void setDescription(String description) {
42     this.description = description;
43 }
44
45 public String getSize() {
46     return size;
47 }
48
49 public void setSize(String size) {
50     this.size = size;
51 }
52
53 public String getLanguage() {
54     return language;
55 }
56
57 public void setLanguage(String language) {
58     this.language = language;
59 }
60
61 public String getHas_issues() {
62     return has_issues;
63 }
64
65 public void setHas_issues(String has_issues) {
66     this.has_issues = has_issues;
67 }
```

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```
62     }
63 }
64 public void setHas_issues(String has_issues) {
65     this.has_issues = has_issues;
66 }
67 public Date getCreated_at() {
68     return created_at;
69 }
70 public void setCreated_at(Date created_at) {
71     this.created_at = created_at;
72 }
73 public Date getUpdated_at() {
74     return updated_at;
75 }
76 public void setUpdated_at(Date updated_at) {
77     this.updated_at = updated_at;
78 }
79 public Date getPushed_at() {
80     return pushed_at;
81 }
82 public void setPushed_at(Date pushed_at) {
83     this.pushed_at = pushed_at;
84 }
85 public int getWatchers_count() {
86     return watchers_count;
87 }
88 public void setWatchers_count(int watchers_count) {
89     this.watchers_count = watchers_count;
90 }
91 }
92 public void setHas_issues(String has_issues) {
93     this.has_issues = has_issues;
94 }
95 public Date getCreated_at() {
96     return created_at;
97 }
98 public void setCreated_at(Date created_at) {
99     this.created_at = created_at;
100 }
101 public Date getUpdated_at() {
102     return updated_at;
103 }
```

```
74     this.created_at = created_at;
75 }
76 public Date getUpdated_at() {
77     return updated_at;
78 }
79 public void setUpdated_at(Date updated_at) {
80     this.updated_at = updated_at;
81 }
82 public Date getPushed_at() {
83     return pushed_at;
84 }
85 public void setPushed_at(Date pushed_at) {
86     this.pushed_at = pushed_at;
87 }
88 public int getWatchers_count() {
89     return watchers_count;
90 }
91 public void setWatchers_count(int watchers_count) {
92     this.watchers_count = watchers_count;
93 }
94 }
95 public void setHas_issues(String has_issues) {
96     this.has_issues = has_issues;
97 }
98 public Date getCreated_at() {
99     return created_at;
100 }
101 public Date getUpdated_at() {
102     return updated_at;
103 }
```

Step 2: Creating REST API

Workspace - Java EE - GitHubRestService/src/main/java/com/client/github/App.java - Eclipse

```

13 /**
14  * Hello world!
15 */
16 /**
17 */
18 @SpringBootApplication(scanBasePackages={"com.stackroute"})
19 @EntityScan(basePackageClasses=Repository.class)
20 public class App
21 {
22     public static void main( String[] args )
23     {
24         SpringApplication.run(App.class, args);
25     }
26
27     @Bean
28     public RestTemplate restTemplate() {
29         return new RestTemplate();
30     }
31 }
32

```

Markers Properties Servers Data Source Explorer Snippets Console Progress JUnit

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Step 3: Setting up server id and port no

Workspace - Java EE - GitHubRestService/src/main/resources/application.properties - Eclipse

```

1server.port:9020
2server.context=/github.com/api
3

```

Markers Properties Servers Data Source Explorer Snippets Console Progress JUnit

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Step 3: Verifying the output via Postman

Builder Team Library

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History Collections Clear all

GET https://api.github.com/users/rakesh13/repos

Authorization Headers Body Pre-request Script Tests

Type No Auth

Body Cookies Headers (24) Test Results

Pretty Raw Preview JSON

```

5     "name": "ActivityStream",
6     "full_name": "rakesh13/ActivityStream",
7     "owner": {
8         "login": "rakesh13",
9         "id": 4477805,
10        "node_id": "MDQ6VXNlcjQ0Nzc4MDU=",
11        "avatar_url": "https://avatars0.githubusercontent.com/u/4477805?v=4",
12        "gravatar_id": "",
13        "url": "https://api.github.com/users/rakesh13",
14        "html_url": "https://github.com/rakesh13",
15        "followers_url": "https://api.github.com/users/rakesh13/followers",
16        "following_url": "https://api.github.com/users/rakesh13/following{/other_user}",
17        "gists_url": "https://api.github.com/users/rakesh13/gists{/gist_id}",
18        "starred_url": "https://api.github.com/users/rakesh13/starred{/repo}",
19        "subscriptions_url": "https://api.github.com/users/rakesh13/subscriptions",
20        "organizations_url": "https://api.github.com/users/rakesh13/orgs",
21        "repos_url": "https://api.github.com/users/rakesh13/repos",
22        "events_url": "https://api.github.com/users/rakesh13/events{/privacy}",
23        "received_events_url": "https://api.github.com/users/rakesh13/received_events",
24        "type": "User",
25        "site_admin": false
26    },

```

Status: 200 OK Time: 1725 ms

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Step 5: Creating the UI using Angular 6 and Node server

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** Shows the project structure under "OPEN EDITORS".
 - src folder contains app, node_modules, and repository-service.service.ts.
 - app folder contains repository, repository.component.css, repository.component.html, repository.component.spec.ts, repository.component.ts, app.component.css, app.component.html, app.component.spec.ts, app.component.ts, app.module.ts, repository-service.service.spec.ts, repository-service.service.ts, assets, environments, favicon.ico, index.html, main.ts, polyfills.ts, and styles.css.
- Code Editor:** The active file is app.component.html. The code displays a placeholder message and links to user repositories and single repository details.
- Terminal:** Shows the output of the Angular CLI build command, indicating the server is running on port 4200.
- Taskbar:** Shows the Windows taskbar with various pinned icons like File Explorer, Edge, and File Explorer.

Step 6: Creating the model class in Angular

repository.ts - GitHubClient - Visual Studio Code

File Edit Selection View Go Debug Tasks Help

EXPLORER OPEN EDITORS TS app.component.ts app.component.html TS repository.ts TS repository-service.service.ts

TS app.component.ts src\app
TS repository.ts src\app\repository
TS repository-service.service.ts src\app\repository-service.service.ts

GITHUBCLIENT e2e node_modules src app repository # repository.component.css repository.component.html TS repository.component.specs TS repository.component.ts TS repository.ts # app.component.css app.component.html TS app.component.specs TS app.component.ts TS app.module.ts TS repository-service.service.specs TS repository-service.service.ts assets environments favicon.ico index.html TS main.ts TS modulefile.ts

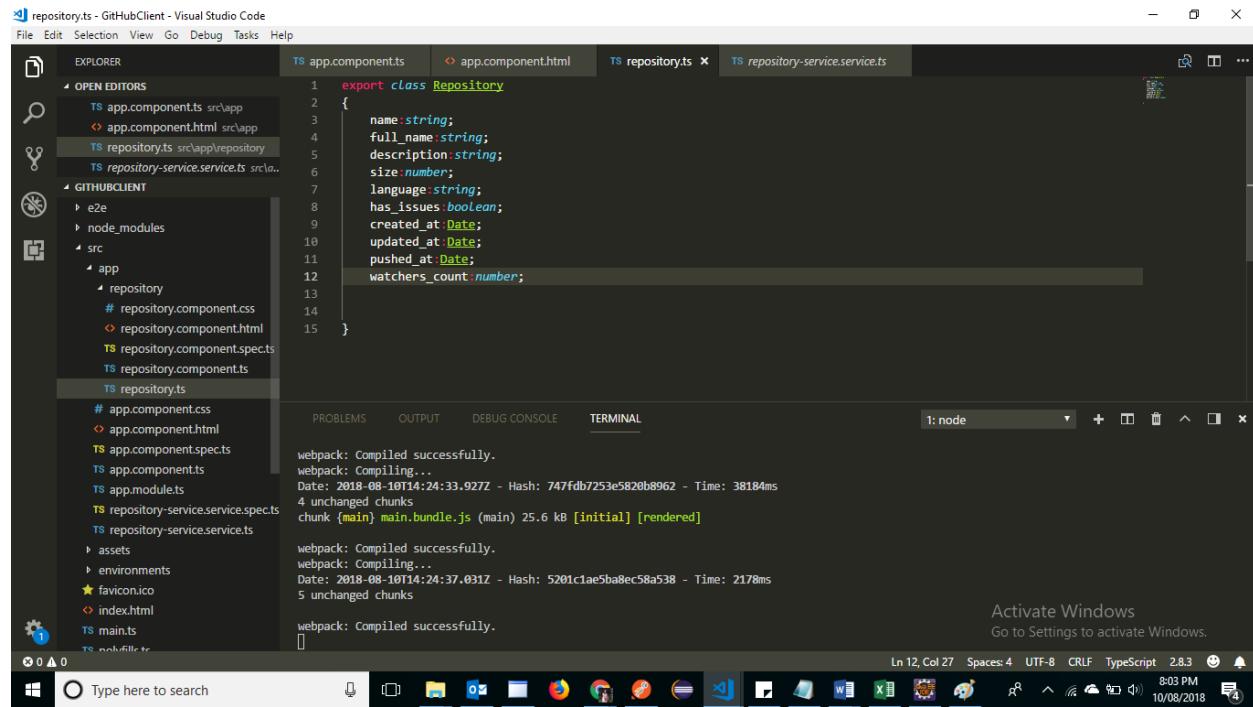
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL 1: node

```
webpack: Compiled successfully.  
webpack: Compiling...  
Date: 2018-08-10T14:24:33.927Z - Hash: 747fdb7253e5820b8962 - Time: 38184ms  
4 unchanged chunks  
chunk {main} main.bundle.js (main) 25.6 kB [initial] [rendered]  
  
webpack: Compiled successfully.  
webpack: Compiling...  
Date: 2018-08-10T14:24:37.031Z - Hash: 5201cae5ba8ec58a538 - Time: 2178ms  
5 unchanged chunks  
  
webpack: Compiled successfully.
```

Activate Windows
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Type here to search



user.ts - GitHubClient - Visual Studio Code

File Edit Selection View Go Debug Tasks Help

EXPLORER component.ts TS api.service.ts TS user.ts app.component.html # styles.css TS repository.ts TS repository-service.service.ts

TS app.component.ts src\app
TS api.service.ts src\app\services
TS user.ts src\app\models
TS repository.ts src\app\repository
TS repository-service.service.ts src\app\repository-service.service.ts
TS repository-component.html src\app\repository-component.html
TS user-service.ts src\app\services

GITHUBCLIENT e2e node_modules src app models TS user.ts repository # repository.component.css repository-component.html TS repository-component.specs TS repository.ts services TS api.service.ts TS user.service.ts TS user.service.specs TS app.component.css app-component.html

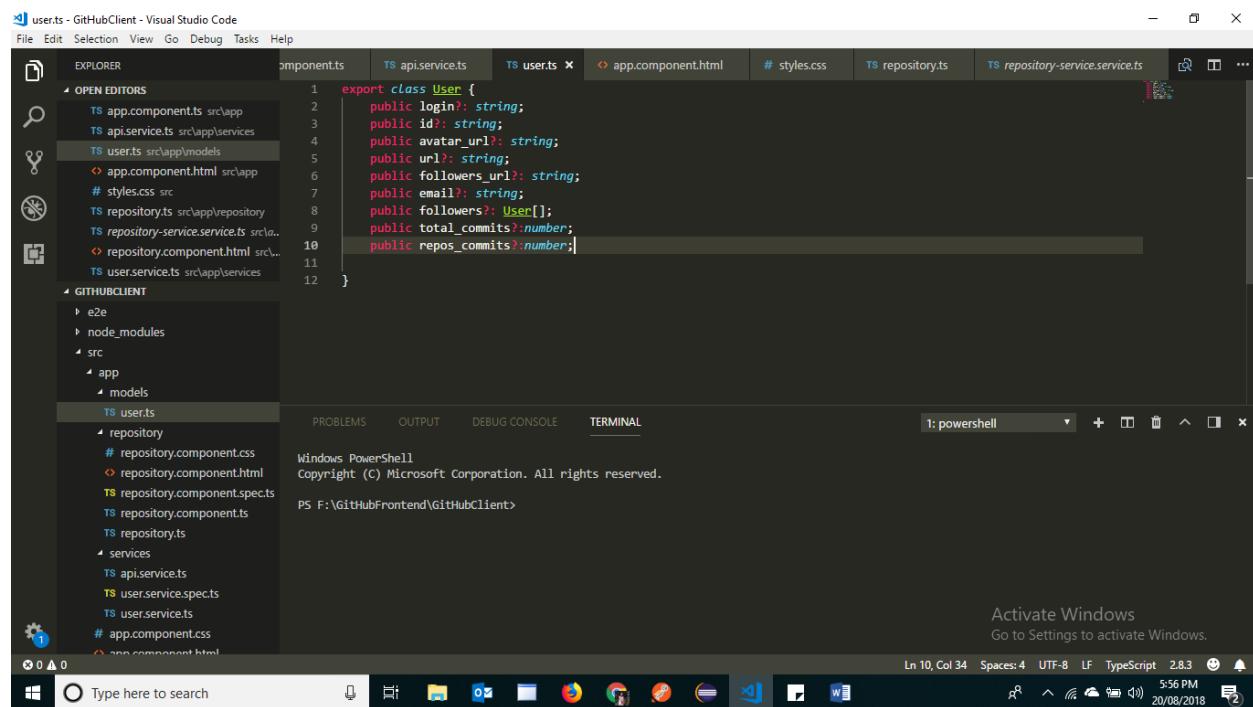
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL t: powershell

```
Windows PowerShell  
Copyright (C) Microsoft Corporation. All rights reserved.  
PS F:\GitHubFrontend\GitHubClient>
```

Activate Windows
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Type here to search



Step 7: Creating user.service.ts file

user.service.ts - GitHubClient - Visual Studio Code

File Edit Selection View Go Debug Tasks Help

EXPLORER

OPEN EDITORS

app.component.html # styles.css TS repository.ts TS repository-service.service.ts repository.component.html TS user.service.ts

```
1 import {Injectable} from '@angular/core';
2 import {Observable} from 'rxjs';
3 import {User} from '../models/user';
4 import { ApiService } from './api.service';

5 @Injectable()
6 export class UserService {
7
8   constructor(private api: ApiService) {
9
10 }
11
12
13
14   getUsers(filter?: string): Observable<User[]> {
15
16     let endPoint = '/users';
17
18     return this.api.get(endPoint).map(res => res.json() as User[]).catch(err => Observable.throw(err));
19   }
20
21   search(q: string): Observable<any> {
22
23     let endPoint = '/search/users?q=' + q;
24
25     return this.api.get(endPoint).map(res => res.json()).catch(err => Observable.throw(err));
26   }
27
28   getUserFollowers(user: string): Observable<any> {
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

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PS F:\GitHubFrontend\GitHubClient>

Activate Windows Go to Settings to activate Windows.

Ln 41, Col 65 Spaces: 4 UTF-8 LF TypeScript 2.8.3 5:58 PM 20/08/2018

Type here to search

user.service.ts - GitHubClient - Visual Studio Code

File Edit Selection View Go Debug Tasks Help

EXPLORER

OPEN EDITORS

app.component.html # styles.css TS repository.ts TS repository-service.service.ts repository.component.html TS user.service.ts

```
20
21
22   search(q: string): Observable<any> {
23
24     let endPoint = '/search/users?q=' + q;
25
26     return this.api.get(endPoint).map(res => res.json()).catch(err => Observable.throw(err));
27   }
28
29   getUserFollowers(user: string): Observable<any> {
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

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PS F:\GitHubFrontend\GitHubClient>

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Ln 41, Col 65 Spaces: 4 UTF-8 LF TypeScript 2.8.3 5:58 PM 20/08/2018

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Step 8: Creating api.service.ts to communicate with github api and then the result is directed to user.service.ts

api.service.ts - GitHubClient - Visual Studio Code

File Edit Selection View Go Debug Tasks Help

EXPLORER

OPEN EDITORS

- TS app.component.ts src\app
- TS api.service.ts src\app\services
- TS user.ts src\app\models
- TS repository.ts src\app\repository
- TS repository-service.service.ts src\app\services
- GITHUBCLIENT

 - # repository.component.css
 - repository.component.html
 - TS repository.component.spec.ts
 - TS repository.component.ts
 - services
 - TS api.service.ts
 - TS user.service.specs
 - TS user.service.ts
 - # app.component.css
 - app.component.html
 - TS app.component.spec.ts
 - TS app.component.ts
 - TS app.module.ts
 - TS index.ts
 - TS repository-service.service.specs
 - TS repository-service.service.ts

api.service.ts

```
1 import {Injectable} from '@angular/core';
2 import {Headers, Http, Response, RequestOptionsArgs} from "@angular/http";
3 import {Observable} from "rxjs";
4
5 @Injectable()
6 export class ApiService {
7
8
9     private headers: Headers = new Headers();
10    private requestOptions: RequestOptionsArgs = {};
11    private apiServer: string = "https://api.github.com";
12
13    constructor(private http: Http) {
14
15        this.headers.set("Content-Type", "application/json");
16
17        this.requestOptions.headers = this.headers;
18
19    }
20
21
22    getHeaders(): Headers {
23
24        return this.headers;
25
26    }
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

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PS F:\GitHubFrontend\GitHubClient>

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api.service.ts - GitHubClient - Visual Studio Code

File Edit Selection View Go Debug Tasks Help

EXPLORER

OPEN EDITORS

api.service.ts

user.ts

app.component.html

styles.css

repository.ts

repository-service.service.ts

repository.c

api.service.ts

user.service.specs

user.service.ts

app.component.css

app.component.html

app.component.spec.ts

app.component.ts

app.module.ts

index.ts

repository-service.service.specs

repository-service.service.ts

GITHUBCLIENT

repository.component.css

repository.component.html

repository.component.spec.ts

repository.component.ts

services

api.service.ts

user.service.specs

user.service.ts

app.component.css

app.component.html

app.component.spec.ts

app.component.ts

app.module.ts

index.ts

repository-service.service.specs

repository-service.service.ts

getHeaders(): Headers {
 return this.headers;
}

setHeader(key: string, value: string) {
 this.headers.set(key, value);
}

removeHeader(key: string) {
 this.headers.delete(key);
}

get(endPoint: string, options?: RequestOptionsArgs): Observable<Response> {
 return this.http.get(this.createUrl(endPoint), this.getRequestOptions(options));
}

post(endPoint: string, body: any, options?: RequestOptionsArgs): Observable<Response> {
 return this.http.post(this.createUrl(endPoint), body, this.getRequestOptions(options));
}

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

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PS F:\GitHubFrontend\GitHubClient>

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api.service.ts - GitHubClient - Visual Studio Code

File Edit Selection View Go Debug Tasks Help

EXPLORER

OPEN EDITORS

- TS app.component.ts src\app
- TS api.service.ts src\app\services
- TS user.ts src\app\models
- ▷ app.component.html src\app
- # styles.css src
- TS repository.ts src\app\repository
- TS repository-service.service.ts src\app\services
- ▷ repository.component.html src\app
- TS user.service.ts src\app\services

GITHUBCLIENT

- # repository.component.css
- ▷ repository.component.html
- TS repository.component.spec.ts
- TS repository.component.ts
- services
- TS api.service.ts
- TS user.service.specs
- TS user.service.ts
- # app.component.css
- ▷ app.component.html
- TS app.component.spec.ts
- TS app.component.ts
- TS app.module.ts
- TS index.ts
- TS repository-service.service.spec.ts
- TS repository-service.service.ts

api.service.ts

```
45
46
47 post(endPoint: string, body: any, options?: RequestOptionsArgs): Observable<Response> {
48
49     return this.http.post(this.createUrl(endPoint), body, this.getRequestOptions(options));
50 }
51
52 put(endPoint: string, body: any, options?: RequestOptionsArgs): Observable<Response> {
53
54     return this.http.put(this.createUrl(endPoint), body, this.getRequestOptions(options));
55 }
56
57 delete(endPoint: string, options?: RequestOptionsArgs): Observable<Response> {
58
59     return this.http.delete(this.createUrl(endPoint), this.getRequestOptions(options));
60 }
61
62 patch(endPoint: string, body: any, options?: RequestOptionsArgs): Observable<Response> {
63
64     return this.http.patch(this.createUrl(endPoint), body, this.getRequestOptions(options));
65 }
66
67 head(endPoint: string, options?: RequestOptionsArgs): Observable<Response> {
68
69 }
70
71 
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Windows PowerShell
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PS F:\GitHubFrontend\GitHubClient>

1: powershell

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Type here to search

api.service.ts - GitHubClient - Visual Studio Code

File Edit Selection View Go Debug Tasks Help

EXPLORER

OPEN EDITORS

- TS app.component.ts src\app
- TS api.service.ts src\app\services
- TS user.ts src\app\models
- ▷ app.component.html src\app
- # styles.css src
- TS repository.ts src\app\repository
- TS repository-service.service.ts src\app\services
- ▷ repository.component.html src\app
- TS user.service.ts src\app\services

GITHUBCLIENT

- # repository.component.css
- ▷ repository.component.html
- TS repository.component.spec.ts
- TS repository.component.ts
- TS repository.ts
- services
- TS api.service.ts
- TS user.service.specs
- TS user.service.ts
- # app.component.css
- ▷ app.component.html
- TS app.component.spec.ts
- TS app.component.ts
- TS app.module.ts
- TS index.ts
- TS repository-service.service.spec.ts
- TS repository-service.service.ts

api.service.ts

```
68
69
70 head(endPoint: string, options?: RequestOptionsArgs): Observable<Response> {
71
72     return this.http.head(this.createUrl(endPoint), this.getRequestOptions(options));
73 }
74
75 options(endPoint: string, options?: RequestOptionsArgs): Observable<Response> {
76
77     return this.http.post(this.createUrl(endPoint), this.getRequestOptions(options));
78 }
79
80createUrl(endPoint: string) {
81
82     let url = this.apiServer + endPoint;
83     if (!endPoint.startsWith('/')) {
84         url = this.apiServer + '/' + endPoint;
85     }
86
87     return url;
88 }
89
90 get RequestOptions(options?: RequestOptionsArgs): RequestOptionsArgs {
91
92     this.requestOptions.headers = this.headers;
93
94     if (options) {
95         this.requestOptions.headers = this.headers;
96     }
97 }
98
99 
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

PS F:\GitHubFrontend\GitHubClient>

1: powershell

Activate Windows
Go to Settings to activate Windows.

Ln 100, Col 6 Spaces: 4 UTF-8 LF TypeScript 2.8.3 6:01 PM 20/08/2018

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api.service.ts - GitHubClient - Visual Studio Code

```

EXPLORER          TS api.service.ts x  TS user.ts      app.component.html # styles.css  TS repository.ts  TS repository-service.service.ts  repository.c ...
OPEN EDITORS
  TS app.component.ts src\app
  TS api.service.ts src\app\services
  TS user.ts src\app\models
  < app.component.html src\app
  # styles.css src
  TS repository.ts src\app\repository
  TS repository-service.service.ts src\...
  < repository.component.html src\...
  TS user.service.ts src\app\services
  GITHUBCLIENT
    # repository.component.css
    < repository.component.html
    TS repository.component.spec.ts
    TS repository.component.ts
    TS repository.ts
    services
      TS api.service.ts
      TS user.service.specs
      TS user.service.ts
      # app.component.css
      < app.component.html
      TS app.component.spec.ts
      TS app.component.ts
      TS app.module.ts
      TS index.ts
      TS repository-service.service.spec.ts
      TS repository-service.service.ts
  0 0  Type here to search
  PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL
  Windows PowerShell
  Copyright (C) Microsoft Corporation. All rights reserved.
  PS F:\GitHubFrontend\GitHubClient>
  1: powershell
  Activate Windows
  Go to Settings to activate Windows.
  Ln 100, Col 6  Spaces: 4  UTF-8  LF  TypeScript  2.8.3  6:01 PM  20/08/2018

```

Step 8: app.module.ts for registering userservice and api service class

app.module.ts - GitHubClient - Visual Studio Code

```

EXPLORER          TS api.service.ts x  TS app.module.ts x  TS user.ts      app.component.html # styles.css  TS repository.ts  < repository.component.h ...
OPEN EDITORS
  TS app.component.ts src\app
  TS api.service.ts src\app\services
  TS app.module.ts src\app
  TS user.ts src\app\models
  < app.component.html src\app
  # styles.css src
  TS repository.ts src\app\repository
  < repository.component.html src\...
  TS user.service.ts src\app\services
  GITHUBCLIENT
    TS repository.component.spec.ts
    TS repository.component.ts
    TS repository.ts
    services
      TS api.service.ts
      TS user.service.specs
      TS user.service.ts
      # app.component.css
      < app.component.html
      TS app.component.spec.ts
      TS app.component.ts
      TS app.module.ts
      TS index.ts
      TS repository-service.service.spec.ts
      TS repository-service.service.ts
  0 0  Type here to search
  PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL
  Windows PowerShell
  Copyright (C) Microsoft Corporation. All rights reserved.
  PS F:\GitHubFrontend\GitHubClient>
  1: powershell
  Activate Windows
  Go to Settings to activate Windows.
  Ln 1, Col 1  Spaces: 2  UTF-8  LF  TypeScript  2.8.3  6:03 PM  20/08/2018

```

Step 9 : App.component.ts for fetching value from service and storing and then it will be displayed to user by app.componet.html

app.component.ts - GitHubClient - Visual Studio Code

File Edit Selection View Go Debug Tasks Help

EXPLORER

- OPEN EDITORS
- TS app.component.ts src\app
- TS api.service.ts src\app\services
- TS app.module.ts src\app
- TS user.ts src\app\models
- app.component.html src\app
- # styles.css src
- TS repository.ts src\app\repository
- repository.component.html src\app
- TS user.service.ts src\app\services

GITHUBCLIENT

- repository.component.specs
- repository.component.ts
- repository.ts
- services
- api.service.ts
- user.service.specs
- user.service.ts
- # app.component.css
- app.component.html
- TS app.component.specs
- TS app.component.ts
- TS app.module.ts
- TS index.ts
- TS repository-service.service.specs
- TS repository-service.service.ts
- assets
- environments
- favicon.ico

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
PS F:\GitHubFrontend\GitHubClient>

Activate Windows
Go to Settings to activate Windows.

1: powershell

Ln 9, Col 26 Spaces: 4 UTF-8 LF TypeScript 2.8.3 6:04 PM 20/08/2018

Type here to search

The screenshot shows the Visual Studio Code interface with the GitHubClient project open. The Explorer sidebar on the left lists files and folders, including components like app.component.ts, api.service.ts, and app.module.ts. The main editor area displays the code for app.component.ts, which defines a component for the root application. The code includes imports for Angular core, User service, and RxJS Subject. It defines a component selector, templateUrl, and styleUrls. The constructor injects an UserService. The component has properties for users (an array of User objects), search (a Subject for searching), selectedUser (a User object), and loadingFollowers (a boolean). Methods include ngOnInit which subscribes to the search subject and userService.getUsers() to fetch initial users, and ngOnInit() which stores the fetched users in cache.

app.component.ts - GitHubClient - Visual Studio Code

File Edit Selection View Go Debug Tasks Help

EXPLORER

- OPEN EDITORS
- TS app.component.ts src\app
- TS api.service.ts src\app\services
- TS app.module.ts src\app
- TS user.ts src\app\models
- app.component.html src\app
- # styles.css src
- TS repository.ts src\app\repository
- repository.component.html src\app
- TS user.service.ts src\app\services

GITHUBCLIENT

- repository.component.specs
- repository.component.ts
- repository.ts
- services
- api.service.ts
- user.service.specs
- user.service.ts
- # app.component.css
- app.component.html
- TS app.component.specs
- TS app.component.ts
- TS app.module.ts
- TS index.ts
- TS repository-service.service.specs
- TS repository-service.service.ts
- assets
- environments
- favicon.ico

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
PS F:\GitHubFrontend\GitHubClient>

Activate Windows
Go to Settings to activate Windows.

1: powershell

Ln 9, Col 26 Spaces: 4 UTF-8 LF TypeScript 2.8.3 6:04 PM 20/08/2018

Type here to search

This screenshot is nearly identical to the one above, showing the same project structure and code for app.component.ts. The code is identical, defining a component for the root application with properties for users, search, selectedUser, and loadingFollowers, and methods for ngOnInit and ngOnInit(). The main difference is the status bar at the bottom, which now shows '20/08/2018' instead of '20/08/2018'.

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** Shows files in the project structure under "GITHUBCLIENT".
- Code Editor:** Displays the content of `app.component.ts`. The code handles user search functionality using RxJS's `getUsers()` method from `api.service.ts`, caching results in `this.cache.users`, and displaying them in `this.users`.
- Terminal:** Shows a PowerShell window with the command `git status` and the output "No changes added to commit (use -a to stage changes)".
- Bottom Bar:** Includes icons for file operations like Open, Save, Find, and Run.

The screenshot shows the Visual Studio Code interface with the following details:

- Title Bar:** app.component.ts - GitHubClient - Visual Studio Code
- Menu Bar:** File, Edits, Selection, View, Go, Debug, Tasks, Help
- Left Sidebar (EXPLORER):** Shows the project structure with files like app.component.ts, api.service.ts, app.module.ts, user.ts, component.html, styles.css, repository.ts, repository.spec.ts, repository.component.ts, repository.spec.ts, services, api.service.ts, user.service.spec.ts, user.service.ts, app.component.css, component.html, app.component.spec.ts, app.component.ts, app.module.ts, index.ts, repository-service.service.spec.ts, repository-service.service.ts, assets, environments, and favicon.ico.
- Code Editor:** The file app.component.ts is open, showing TypeScript code for handling user followers. The code includes subscriptions to the userService, logic for loading followers, and a cacheSelectUser function. Lines 100-114 are highlighted in grey.
- Bottom Status Bar:** Line 9, Col 26 | Spaces: 4 | UTF-8 | LF | TypeScript 2.8.3 | 6:05 PM | 20/08/2018

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** Shows the project structure under "OPEN EDITORS". The file `TS app.component.ts` is currently selected.
- Code Editor:** Displays the content of `app.component.ts`. The code includes logic for selecting a user from a cache and finding a user by login.
- Bottom Status Bar:** Shows the current terminal as "powershell" and the file path "F:\GitHubFrontend\GitHubClient".
- Bottom Icons:** Includes icons for file operations like Open, Save, Find, and others.

Step 10: App.component.html page to display the values to user.

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** Shows the project structure under the "GITHUBCLIENT" folder, including files like app.component.html, app.component.ts, api.service.ts, app.module.ts, user.service.ts, repository.component.html, repository.ts, and repository.spec.ts.
- Code Editor:** The main editor pane displays the content of app.component.ts, which contains the code for a navbar component.
- Bottom Status Bar:** Shows the file path as PS F:\GitHubFrontend\GitHubClient>, the terminal as powershell, and the status bar with Ln 92, Col 16, Spaces: 2, UTF-8, LF, HTML, and a battery icon.

```
1 <nav class="navbar navbar-inverse navbar-fixed-top">
2   <div class="container">
3     <div class="navbar-header">
4       <button type="button" class="navbar-toggle collapsed" data-toggle="collapse" data-target="#navbar"
5         aria-expanded="false" aria-controls="navbar">
6           <span class="sr-only">Toggle navigation</span>
7           <span class="icon-bar"></span>
8           <span class="icon-bar"></span>
9           <span class="icon-bar"></span>
10          </button>
11          <a class="navbar-brand" href="#">Github</a>
12        </div>
13        <div id="navbar" class="navbar-collapse collapse">
14          <form class="navbar-form navbar-right">
15            <div class="form-group">
16              <input #input (keyup)="onSearch(input.value)" type="text" placeholder="Search users..." class="form-control" />
17              <input #input (keyup)="onSearch(input.value)" type="text" placeholder="Search Repository..." class="form-control" />
18            </div>
19          </form>
20        </div><!-- .navbar-collapse -->
21      </div>
22    </nav>
23
24    <div class="jumbotron">
25      <div class="container">
26        <h1>{title}</h1>
27      </div>
```

The screenshot shows the Visual Studio Code interface with the following details:

- Title Bar:** app.component.html - GitHubClient - Visual Studio Code
- File Menu:** File Edit Selection View Go Debug Tasks Help
- Explorer View:** Shows the project structure with files like app.component.ts, api.service.ts, app.module.ts, user.ts, app.component.html, styles.css, repository.ts, repository.html, repository.component.html, repository.spec.ts, repository.specs.ts, repository.service.ts, repository.spec.ts, repository-service.service.ts, repository-service.service.specs.ts, assets, environments, and favicon.ico.
- Code Editor:** The main area displays the content of app.component.html, which includes navigation, a jumbotron, a breadcrumb menu, a view-profile section, and a media object displaying user information.
- Bottom Status Bar:** Shows the current file (app.component.html), line number (Ln 92), column number (Col 16), spaces (Spaces: 2), encoding (UTF-8), line feed (LF), and HTML mode.
- Terminal:** Shows the command "powershell" and the path "PS F:\GitHubFrontend\GitHubClient".
- Activity Bar:** Includes icons for Find, Replace, Go To, and other development tools.

app.component.html - GitHubClient - Visual Studio Code

File Edit Selection View Go Debug Tasks Help

EXPLORER OPEN EDITORS TS app.component.ts TS api.service.ts TS app.module.ts TS user.ts app.component.html # styles.css TS repository.ts

```
48     </div>
49   <br/>
50   <!--><span *ngIf="loadingFollowers">Followers loading...</span><span *ngIf="!loadingFollowers">Followers</span>
51   <template [ngIf]="selectedUser.followers">
52     <div class="row">
53       <div *ngFor="let follower of selectedUser.followers" class="col-xs-6 col-md-2">
54         <div class="thumbnail">
55           <img [src]="follower.avatar_url">
56           <div class="caption">
57             <h4>{{follower.login}}</h4>
58             <p>
59               <button (click)="viewUser(follower)" class="btn btn-primary" role="button">More info</button>
60             </p>
61           </div>
62         </div>
63       </div>
64     </div>
65   </template>
66
67   <!-- Example row of columns -->
68   <div class="row">
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Windows PowerShell Copyright (C) Microsoft Corporation. All rights reserved.

PS F:\GitHubFrontend\GitHubClient>

Activate Windows Go to Settings to activate Windows.

Ln 92, Col 16 Spaces: 2 UTF-8 LF HTML 6:07 PM 20/08/2018

Type here to search

app.component.html - GitHubClient - Visual Studio Code

File Edit Selection View Go Debug Tasks Help

EXPLORER OPEN EDITORS TS app.component.ts TS api.service.ts TS app.module.ts TS user.ts app.component.html # styles.css TS repository.ts

```
09
10
11   </template>
12
13   <!-- Example row of columns -->
14   <div class="row">
15
16     <template [ngIf]!="selectedUser.id">
17       <div *ngFor="let user of users" class="col-xs-6 col-md-2">
18
19         <div class="thumbnail">
20           <img [src]="user.avatar_url">
21           <div class="caption">
22             <h4>{{user.login}}</h4>
23             <h5>{{user.total_commits}}</h5>
24             <h5>{{user.repos_commits}}</h5>
25             <p>
26               <button (click)="viewUser(user)" class="btn btn-primary" role="button">More info</button>
27             </p>
28           </div>
29         </div>
30       </div>
31     </template>
32
33   </div>
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Windows PowerShell Copyright (C) Microsoft Corporation. All rights reserved.

PS F:\GitHubFrontend\GitHubClient>

Activate Windows Go to Settings to activate Windows.

Ln 92, Col 16 Spaces: 2 UTF-8 LF HTML 6:08 PM 20/08/2018

Type here to search

app.component.html - GitHubClient - Visual Studio Code

File Edit Selection View Go Debug Tasks Help

EXPLORER OPEN EDITORS TS app.component.ts TS api.service.ts TS app.module.ts TS user.ts app.component.html # styles.css TS repository.ts

```

<div class="caption">
  <h4>{{user.login}}</h4>
  <h5>{{user.total_commits}}</h5>
  <h5>{{user.repos_commits}}</h5>
  <p>
    <button (click)="viewUser(user)" class="btn btn-primary" role="button">More info</button>
  </p>
</div>
</div>
</div>
</div>
<br>
<footer>
  <p>&copy; Github Project All Rights Reserved...</p>
</footer>
</div> <!-- /container -->

```

GITHUBCLIENT repository.component.specs TS repository.component TS repository.ts services TS api.service.ts TS user.service.specs TS user.service.ts # app.component.css app.component.html TS app.component.spec.ts TS app.component TS app.module.ts TS index.ts TS repository-service.service.specs TS repository-service.service.ts assets environments favicon.ico

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL 1: powershell

Windows PowerShell Copyright (C) Microsoft Corporation. All rights reserved.

PS F:\GitHubFrontend\GitHubClient> Activate Windows Go to Settings to activate Windows.

Ln 92, Col 16 Spaces: 2 UTF-8 LF HTML 6:08 PM 20/08/2018

Type here to search

Step 11: Style.css for defining the styles:

styles.css - GitHubClient - Visual Studio Code

File Edit Selection View Go Debug Tasks Help

EXPLORER OPEN EDITORS TS app.component.ts TS api.service.ts TS app.module.ts TS user.ts app.component.html # styles.css TS repository.ts

```

1 /* You can add global styles to this file, and also import other style files */
2 .breadcrumb a{
3   cursor: pointer;
4 }

```

GITHUBCLIENT app.component.specs TS app.component TS app.module.ts TS index.ts TS repository-service.service.specs TS repository-service.service.ts assets environments favicon.ico index.html TS main.ts TS polyfills.ts # styles.css TS test.ts {} tsconfig.app.json {} tsconfig.spec.json TS typings.d.ts {} angular-cli.json

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL 1: powershell

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PS F:\GitHubFrontend\GitHubClient> Activate Windows Go to Settings to activate Windows.

Ln 4, Col 2 Spaces: 4 UTF-8 LF CSS 6:09 PM 20/08/2018

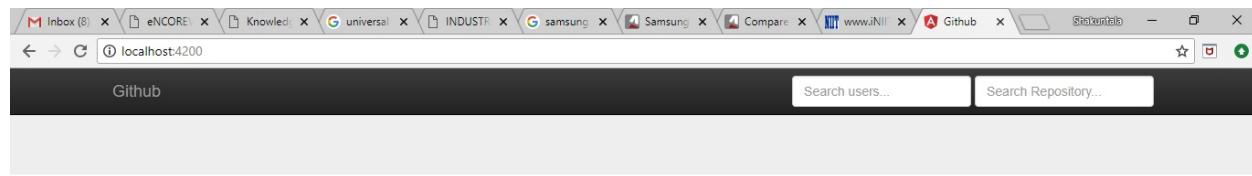
Type here to search

Step 12: Starting the node server and deploying the application by using npm start command

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** Shows the project structure under "OPEN EDITORS" and "GITHUBCLIENT".
- Editor:** The "app.component.ts" file is open, displaying code related to a breadcrumb navigation item.
- Terminal:** The terminal window shows the command `npm start` being run, followed by the output of the Angular build process. The output includes the date (2018-08-20T12:42:26.636Z), hash (4414ea5082e2ff5358e), time (50686ms), and a list of compiled chunks and vendor files.
- Status Bar:** Shows the current file is "1: node", line count (Ln 4, Col 2), spaces (Spaces: 4), encoding (UTF-8), and file type (CSS). It also displays the date and time (6:12 PM, 20/08/2018) and a notification icon.

Step 13: Verifying the output:



Activate Windows
Go to Settings to activate Windows.

Type here to search

localhost:4200

Github

pankajSre

PankajSre

Home / PankajSre

PankajSre

Followers (6) **Commits** (29)

Jatin1697	anshuman101	BalanVignesh482	tshep159	Aj1402	Anujil1999

Activate Windows
Go to Settings to activate Windows.

Type here to search

Screenshot of a web browser showing a GitHub profile for 'rakesh13'. The profile page displays the user's name, a profile picture, and follower/commit statistics.

GitHub

rakesh13

MusicHubFinal

rakesh13

Date : 18-08-2018

Home / rakesh13



rakesh13

Followers (0) Commits (21)

Screenshot of a web browser showing a GitHub profile for 'rakesh13'. The profile page displays the user's name, a profile picture, and follower/commit statistics. A Windows taskbar at the bottom indicates the screenshot was taken on a Windows 10 system.

Type here to search

6:01 PM
18/08/2018

GitHub

rakesh13

MusicHubFinal

rakesh13

Date : 18-08-2018

rakesh13

rakesh1313

rakesh1310

rakesh1312

Rakesh1307

Rakesh1325

rakesh1313

rakesh1310

rakesh1312

Rakesh1307

Rakesh1325

Activate Windows
Go to Settings to activate Windows.

Type here to search

5:50 PM
18/08/2018

Screenshot of a web browser showing a GitHub profile for "rakesh13". The URL is "localhost:4200". The profile picture is a portrait of a man with dark hair and a beard, wearing a dark suit. The name "rakesh13" is displayed prominently at the top.

Home / rakesh13



Followers (0)

Activate Windows
Go to Settings to activate Windows.

Screenshot of a web browser showing a GitHub profile for "PankajSre". The URL is "localhost:4200". The profile picture is a stylized graphic of the word "Devo" in red and black. The name "PankajSre" is displayed prominently at the top.

Home / PankajSre



Followers (6)



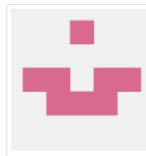
Jatin1697



anshuman101



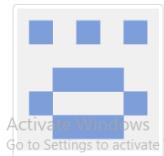
BalanVignesh482



tshep159



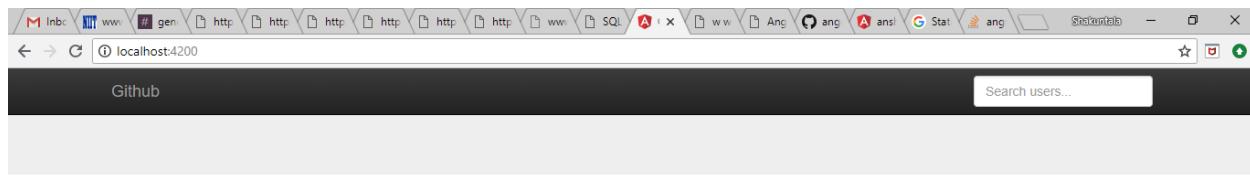
Aj1402



Activate Windows
Go to Settings to activate Windows.

anujil1999

Screenshot of a Windows desktop taskbar at the bottom of the screen, showing various pinned icons and the date/time (6:57 PM, 12/08/2018).



A screenshot of a web browser window showing search results for the query "rakesh13". The address bar displays "localhost:4200" and contains the search term "rakesh13". The main content area shows a grid of 12 items, each representing a user profile. The first item is a photo of a man with a mustache, labeled "rakesh13" with a "More info" button. The other 11 items are represented by various pixelated icons or avatars, each with a name and a "More info" button. At the bottom right of the grid, there is a message: "Activate Windows Go to Settings to activate Windows." The browser's taskbar at the bottom shows various pinned and open tabs, and the system tray indicates the date and time as 6:58 PM on 12/08/2018.