

TEAM 6

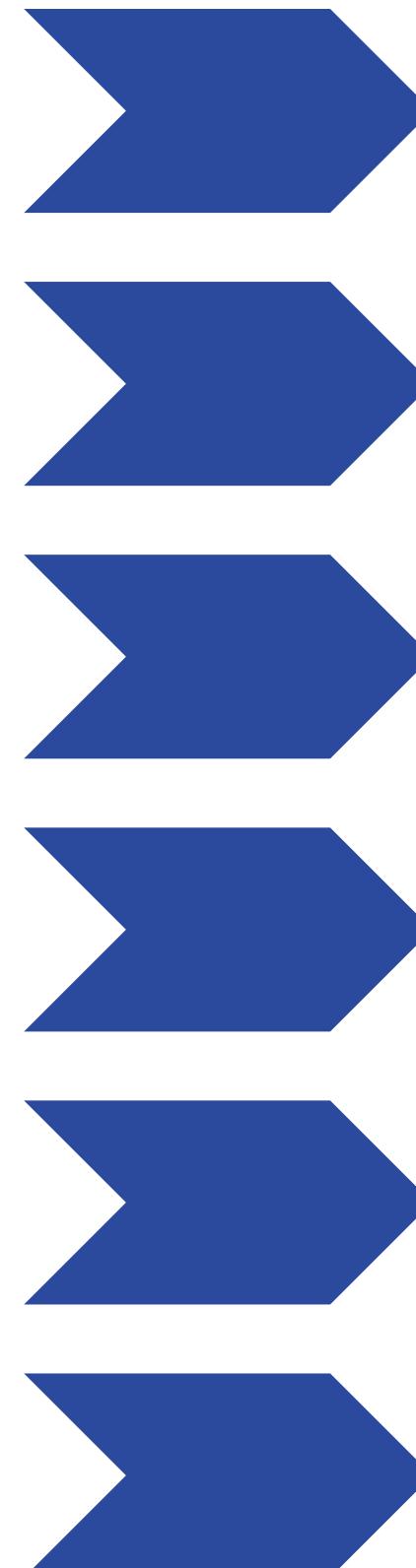
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EMERGENCY WEB-APPLICATION

NOTIFY PLATFORM BASED ON COMMUNITY

FULL STACK APPLICATION DEVELOPMENT

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Introduction

Introduction

Nowadays, There are many accident notifications and information on social media with community-driven but often too broadly and widely. While it has the advantage of providing users with a wide range of information, the downside is that sometimes it's challenging to focus on what one specifically needs to know so we created the website which can focus only specific news in our university.



Problem Statement

Problem Statement

For the main point that we have seek, can describe as following topics

- 1.Inefficiencies in reporting** : for manual report can't be see for everyone
- 2.Communication gaps** : Too wide range of accident and information in social
- 3.Invited people into groups** : Failing to invite someone to exchange information in a community
- 4. Can not see statistics of accident** : No record history of accident in one app

**This solved by : Creating a website that can focus on
AIT's community and make it usable for everyone**

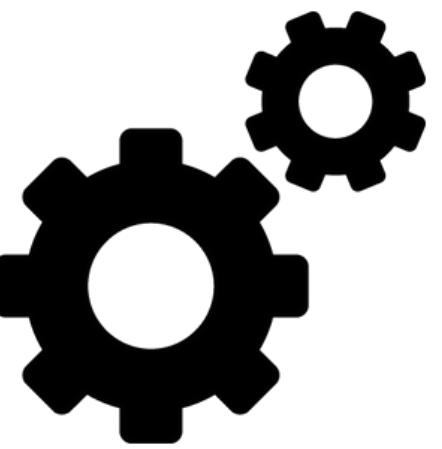
Related Works

Related Works

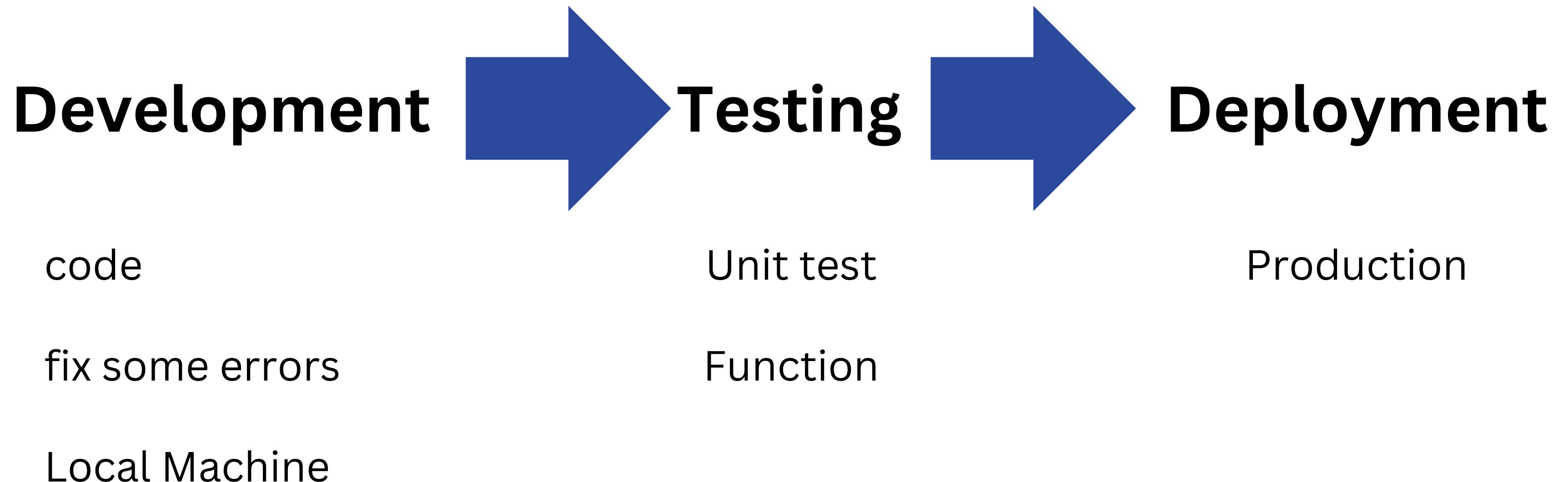
There are some similar website as follows:

- 1.Button:** an emergency alert system that allows individuals to quickly notify authorities about all types of emergencies.
- 2.Safe Schools Alert:** an online platform designed to report safety concerns, including bullying, harassment, and other potential threats.
- 3.School Dude Crisis Manager:** a mobile application designed to assist schools in emergency preparedness and response.

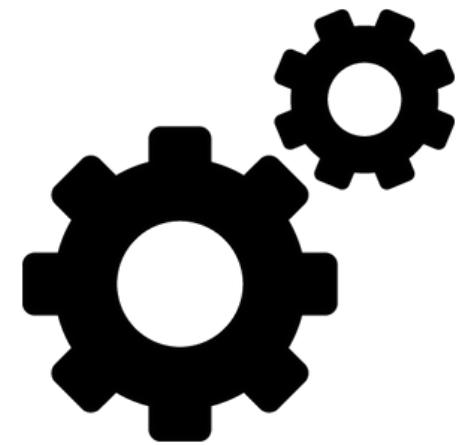
Methodology



Plan for Project



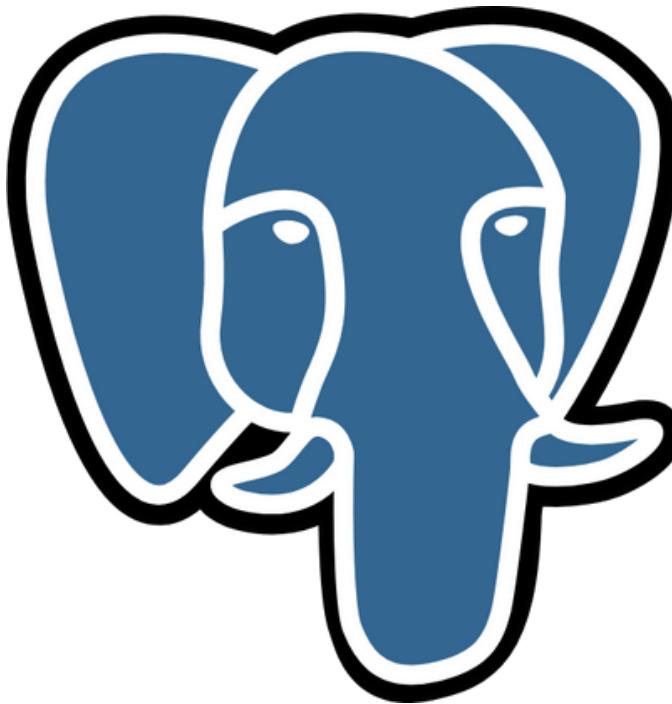
Methodology System Architecture



The tools that we have used for the system

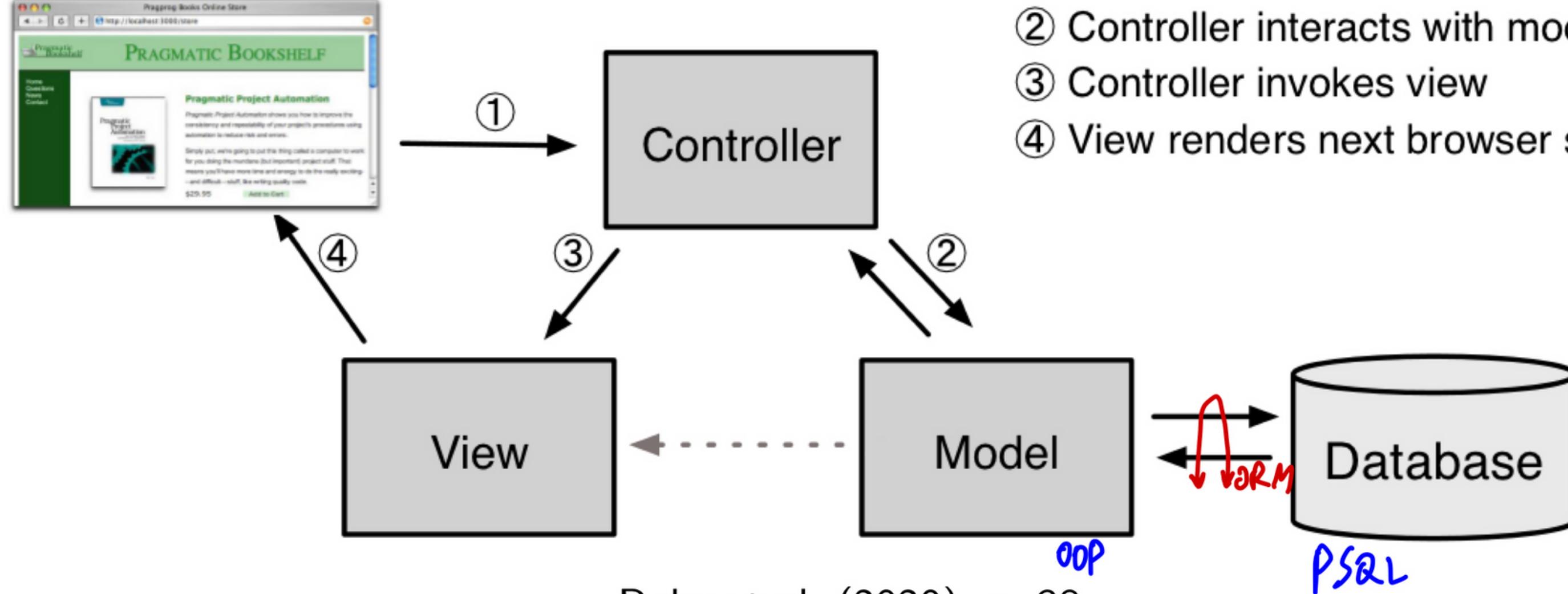
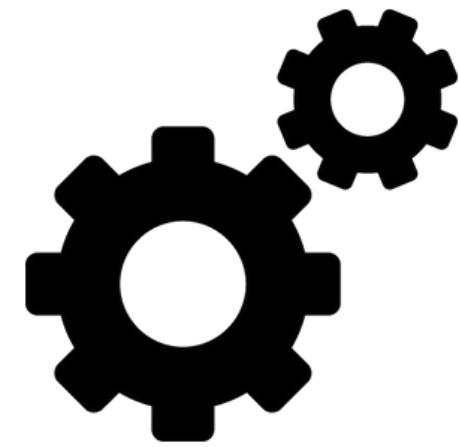


Rails is a full-stack framework. It ships with all the tools needed to build web-apps on both the front and back end based on MVC-architecture.

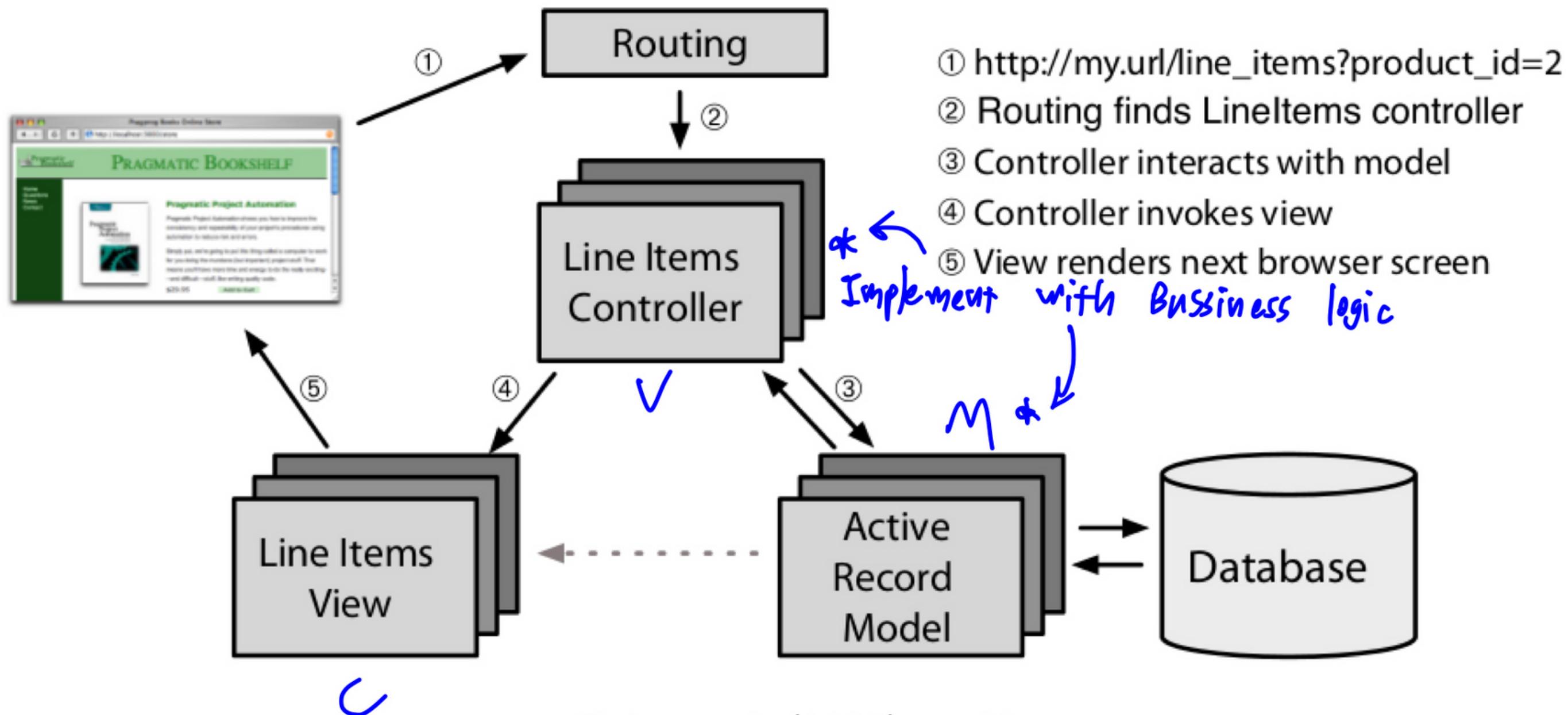
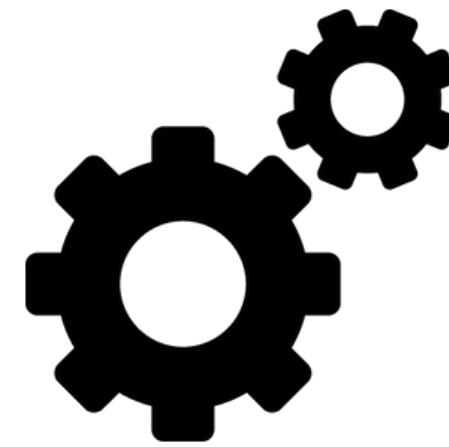


Postgres is a free and open-source relational database management system (RDBMS) that can store databases

Methodology System Architecture

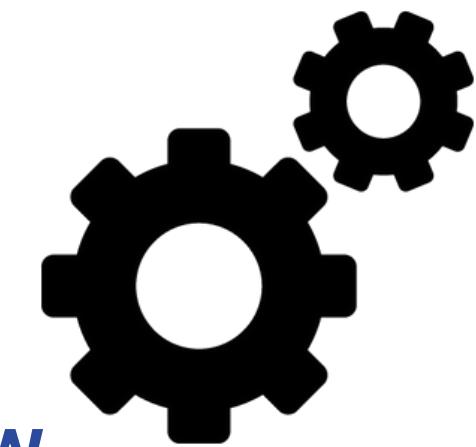


Methodology System Architecture

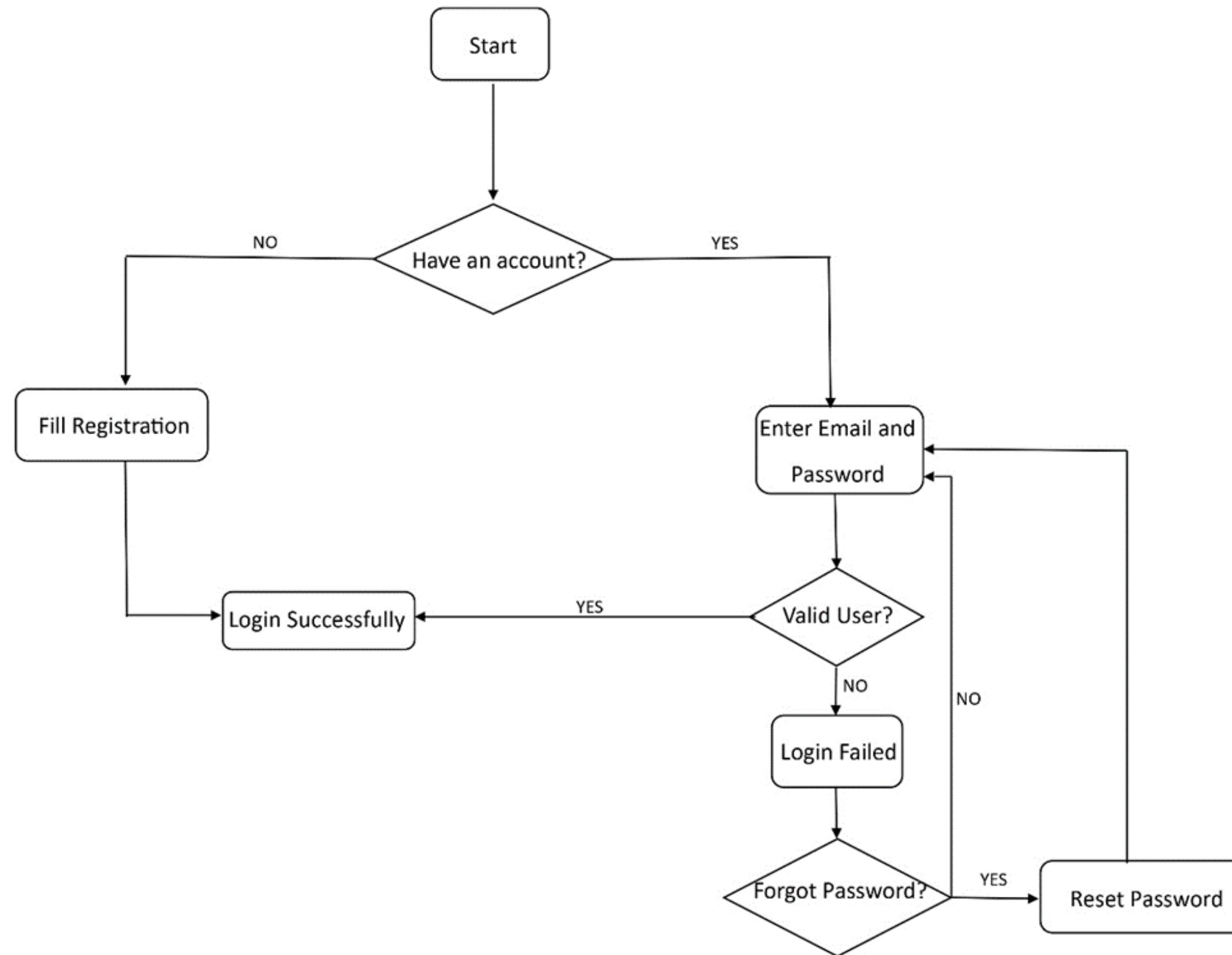


Ruby et al. (2020), p. 39

Methodology

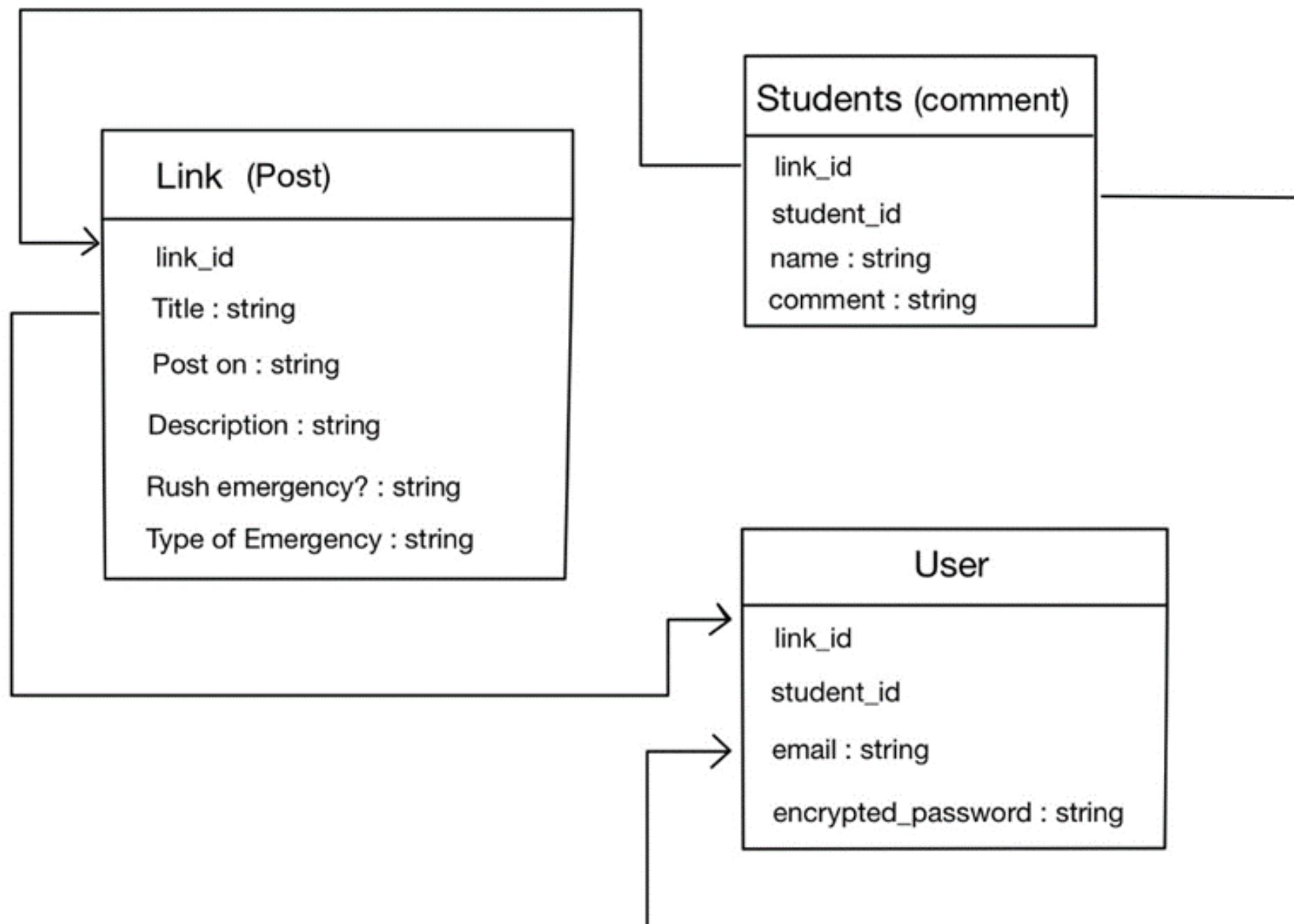


System Architecture : registration and management page flow

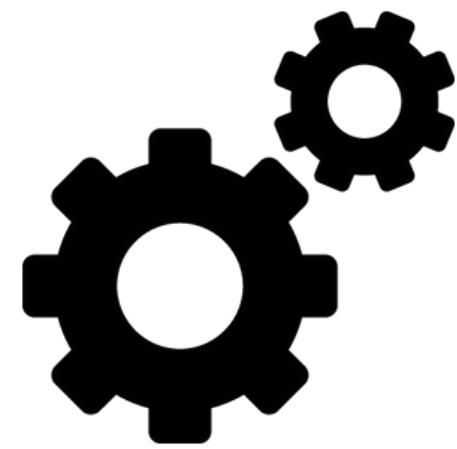


Methodology

System Architecture : user data model : Relation between database



Methodology Testing Approaches



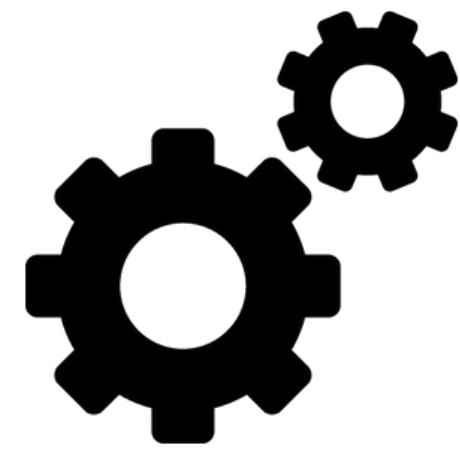
Our team will focus on BDD test to test the code that can more ability to test a whole function than unit test or TDD

The TestQuality logo, featuring a green speech bubble icon with a white checkmark inside, followed by the word "TestQuality" in a sans-serif font with a trademark symbol.

```
untitled
1 Feature: feature name
2   In order to value
3   As a role
4   I want feature
5
6 Scenario: title
7   Given context
8   When event
9   Then outcome
10
11 Scenario Outline: title
12   Given context
13   When event
14   Then outcome
15 <name>:
16   | <title> | <title> | <title> |
17   | <value>  | <value>  | <value>  |
18   | <value>  | <value>  | <value>  |
19   | <value>  | <value>  | <value>  |
20
21 Scenario: test login
22
23 Given I am on "/"
24 When I follow "login"
25 Then I should be on "/login"
26 When I fill in "Shashi" for "username"
27 And I fill in "password" with "jagtap"
28 And I press "submit"
29 Then I should see "welcome"
```

A screenshot of a terminal window showing BDD test code. The code includes a Feature block, a Scenario block, a Scenario Outline block with multiple examples, and a final Scenario block for a login test. The TestQuality logo is overlaid on the right side of the terminal window.

Methodology

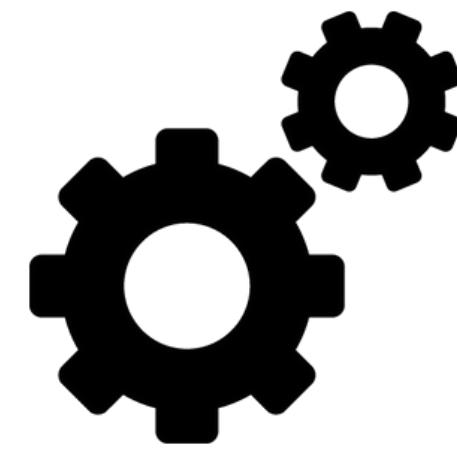


Testing Approaches

BDD test, using cucumber for testing

```
398 $ rails db:seed
399 $ bundle exec cucumber
400 Using the default profile...
401 Feature: Links
402   Scenario: Get course info                         # features/links.feature:3
403     User who has account should be able to see the list of comment working on post
404     Given I am user and admin at the same time        # features/step_definitions/link_steps.rb:1
405     Given There is a post                            # features/step_definitions/link_steps.rb:7
406     And post have some comments                      # features/step_definitions/link_steps.rb:12
407     And I am logged in to access website            # features/step_definitions/link_steps.rb:17
408     When I visit the landing page                  # features/step_definitions/link_steps.rb:22
409     Then I should see the list of emergency         # features/step_definitions/link_steps.rb:27
410     When I click comment to see the comment          # features/step_definitions/link_steps.rb:35
```

Methodology



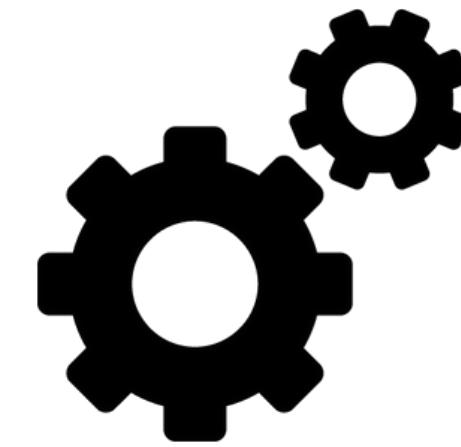
Testing Approaches

Using Gitlab CI to check
the results

```
✓ 437 Saving cache for successful job                                00:01
    438 Creating cache default-non_protected...
    439 WARNING: vendor/ruby: no matching files. Ensure that the artifact path is relative
                to the working directory (/builds/ait_fsd-2023/team-6/emergency-webapp)
    440 Archive is up to date!
    441 Created cache
    ✓ 442 Cleaning up project directory and file based variables      00:00
        443 Job succeeded
```

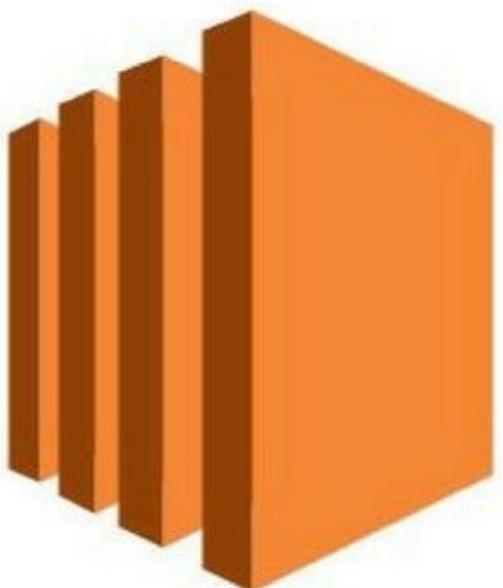
Job succeeded

Methodology



Deployment

We have deploy to 2 parts. The first one is on EC2 instance and second one is using capistrano for automate deployment



Amazon EC2



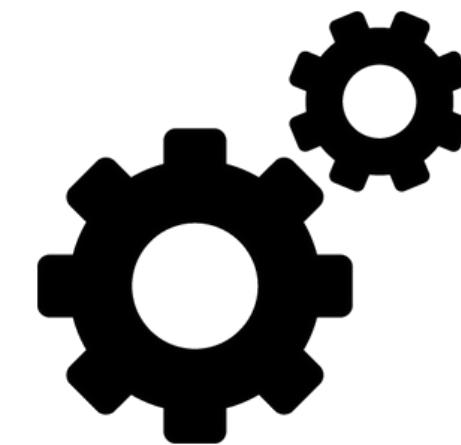
A remote server automation and deployment tool

One command can automate deploy to production

Methodology

Deployment Capistrano

cap production deploy



```
nont18@nont18-VirtualBox:~/classprojec/readit$ cap production deploy BRANCH=main
00:00 git:wrapper
  01 mkdir -p /tmp
  ✓ 01 deploy@157.245.205.61 0.085s
    Uploading /tmp/git-ssh-efe6c5a10982504bf8b0.sh 100.0%
    02 chmod 700 /tmp/git-ssh-efe6c5a10982504bf8b0.sh
  ✓ 02 deploy@157.245.205.61 0.093s
00:00 git:check
  01 git ls-remote git@gitlab.com:ait_fsad-2023/team-6/emergency-webapp.git HEAD
  01 35d1a4e227cba97c2a0bfc8709bc9ee44bebe2e8      HEAD
  ✓ 01 deploy@157.245.205.61 3.498s
00:03 deploy:check:directories
  01 mkdir -p /home/deploy/readit/shared /home/deploy/readit/releases
  ✓ 01 deploy@157.245.205.61 0.096s
00:03 deploy:check:linked_dirs
  01 mkdir -p /home/deploy/readit/shared/log /home/deploy/readit/shared/tmp/pids /home/deploy/readit/shared/tmp/cache /home/deploy/readit...
  ✓ 01 deploy@157.245.205.61 0.086s
00:04 git:clone
  The repository mirror is at /home/deploy/readit/repo
00:04 git:update
  01 git remote set-url origin git@gitlab.com:ait_fsad-2023/team-6/emergency-webapp.git
  ✓ 01 deploy@157.245.205.61 0.108s
  02 git remote update --prune
  02 Fetching origin
  02 From gitlab.com:ait_fsad-2023/team-6/emergency-webapp.git
  02   1dc923c..35d1a4e main      ✓ 02 deploy@157.245.205.61 0.084s
  ✓ 02 deploy@157.245.205.61 3.745s 00:22 passenger:restart
00:08 git:create_release
  01 passenger-config restart-app /home/deploy/readit --ignore-app-not-running
  01 There are no Phusion Passenger(R)-served applications running whose paths begin with '/home/deploy/readit'.
  01 *** Cleaning stale instance directory /tmp/passenger.EZmAe8T
  01     Warning: Operation not permitted @ rb_file_chown - /tmp/passenger.EZmAe8T/.
  01 *** Cleaning stale instance directory /var/run/passenger-instreg/passenger.0yKKaH8
  01     Warning: Permission denied @ dir_s_rmdir - /var/run/passenger-instreg/passenger.0yKKaH8
  ✓ 01 deploy@157.245.205.61 0.368s
00:22 deploy:cleanup
  Keeping 5 of 6 deployed releases on 157.245.205.61
```

Error with Apache : Did not run in the path

Results

Results

Users' feedback

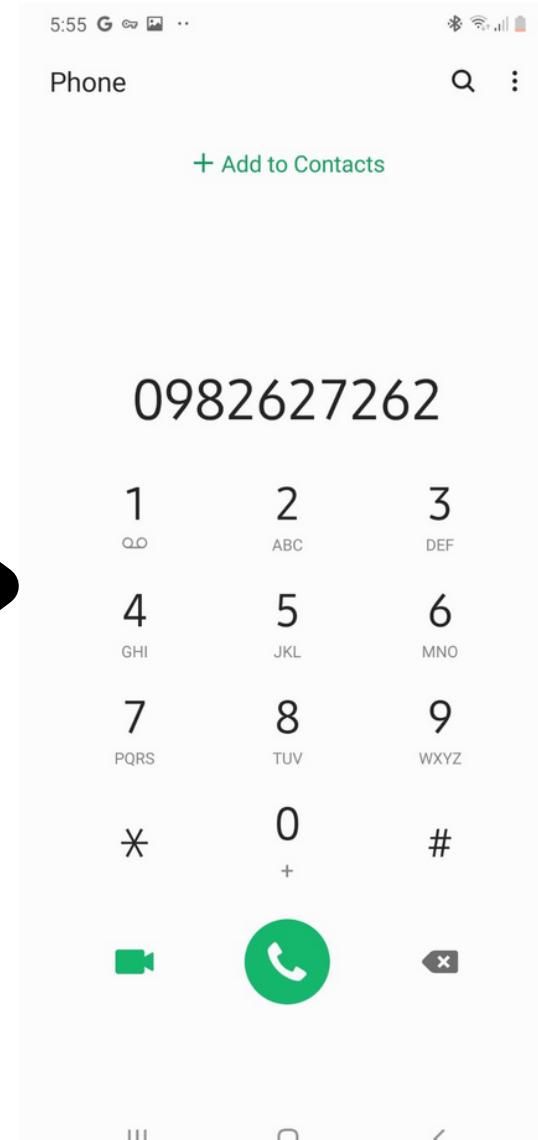
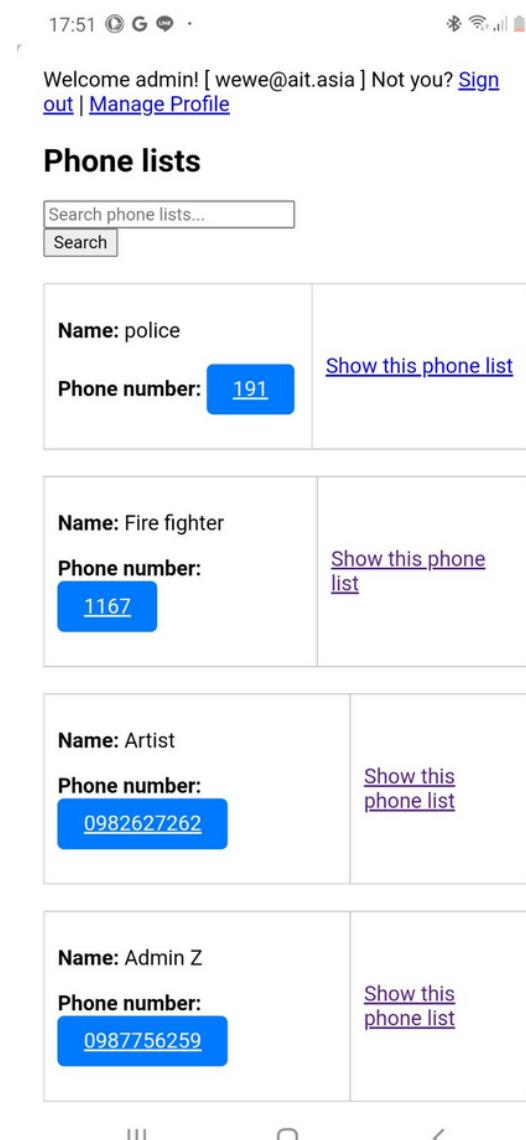
User 1 : “*I think, for the user interface and functionality is great but It should attach some pictures or videos to imagine or see some result of accidents*”

List of relations			
Schema	Name	Type	Owner
public	active_storage_attachments	table	nont18
public	active_storage_attachments_id_seq	sequence	nont18
public	active_storage_blobs	table	nont18
public	active_storage_blobs_id_seq	sequence	nont18
public	active_storage_variant_records	table	nont18
public	active_storage_variant_records_id_seq	sequence	nont18
public	ar_internal_metadata	table	nont18
public	links	table	nont18
public	links_id_seq	sequence	nont18
public	maps	table	nont18
public	maps_id_seq	sequence	nont18
public	phone_lists	table	nont18
public	phone_lists_id_seq	sequence	nont18
public	schema_migrations	table	nont18
public	students	table	nont18
public	students_id_seq	sequence	nont18
public	users	table	nont18
public	users_id_seq	sequence	nont18
(18 rows)			

Results

Users' feedback

User 2 : “*I like your idea, most website didn't create some kind like this. For the phone call page, It should be more access in hurry accident.*”



We already fix this one and It can link to another phone app

Results

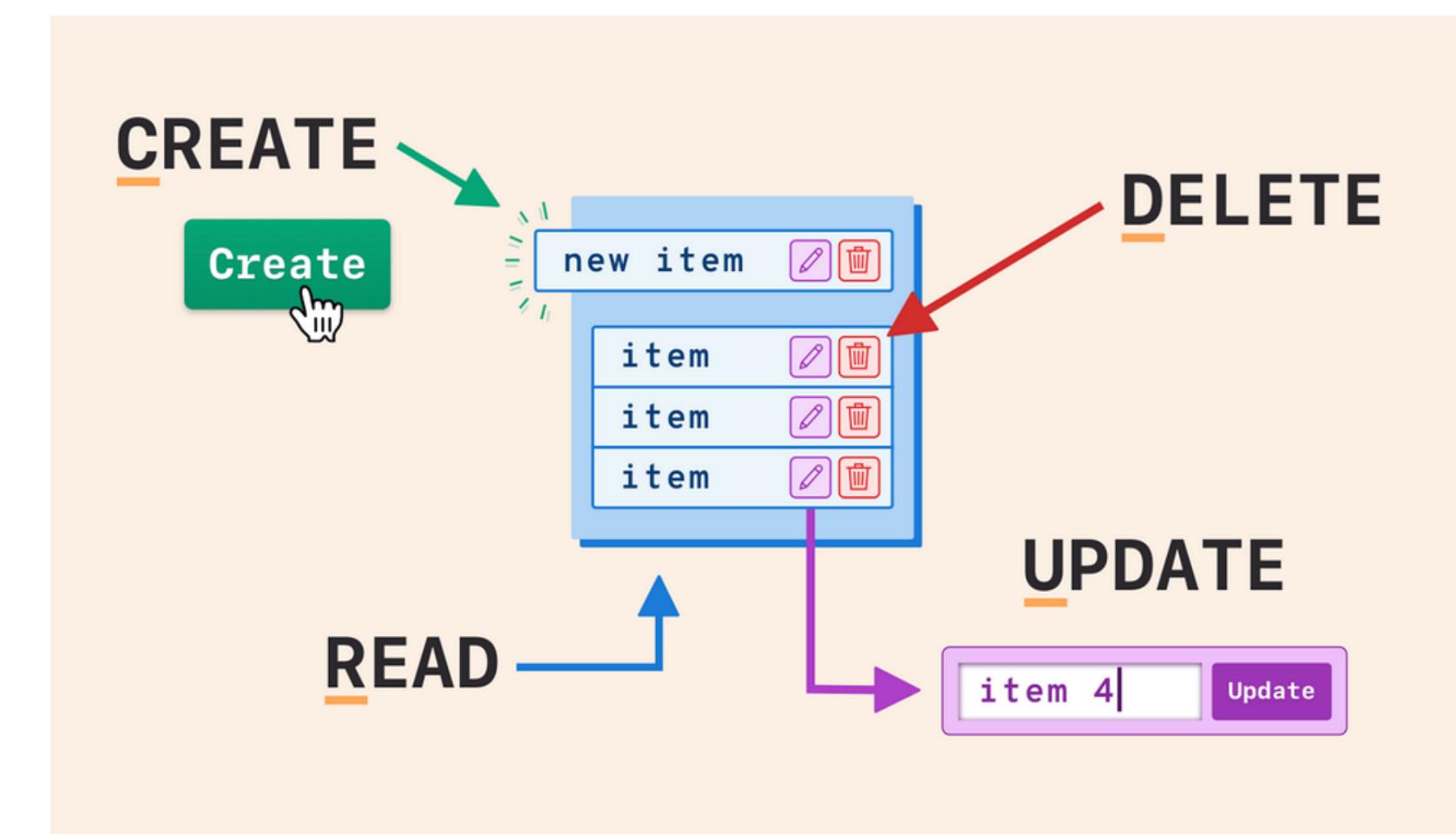
Users' feedback

User 3 : “you don't have an anonymous submission feature. i believe it's important to protect the user's identity, especially when they want to make a report about something sensitive, or making report on behalf of someone else.”

Screenshot of a web application interface showing a list of users. The URL is 127.0.0.1:3000/users. The page title is "List of Users". It displays a table with columns: Username, Email, Join, and Delete. There are three items in the table:

Username	Email	Join	Delete
Xi Jinping	st1111@ait.asia	2023-11-12 22:01:12 UTC	Delete
admin	wewe@ait.asia	2023-11-12 16:26:57 UTC	Delete
non	st124335@ait.asia	2023-11-21 17:19:35 UTC	Delete

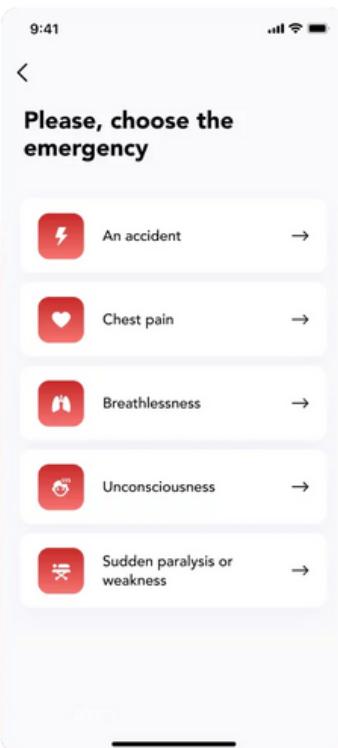
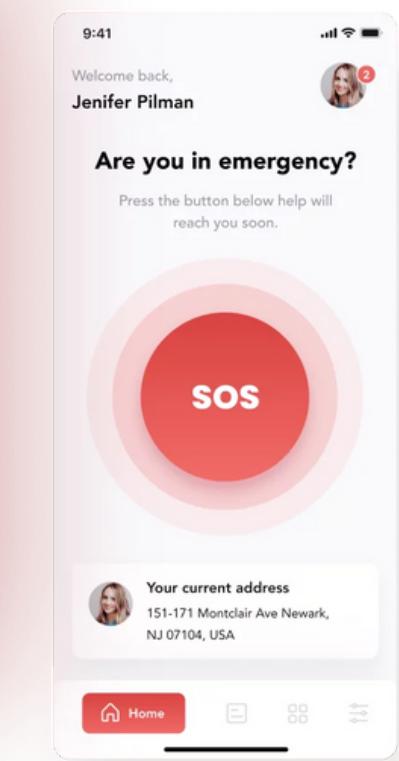
Buttons at the bottom include "Back to homepage".



Conclusions and Future works

Conclusions

By limitation of time, Our website is equipped with common functions that users and administrators can easily use. Although, It misses some advanced features such as adding photos or a reporting system that can report unsuitable comments



Future works



Attach some images
and videos



Identify the locations

Send us your feedback!

Did you achieve your goal?

Yes Partially No

What was the reason for your visit?

Pricelist Request

What was the reason you could not achieve your goal?

The form doesn't work well

Do you have any suggestions to make our website better?

Submit

This is a screenshot of a feedback survey form titled "Send us your feedback!". It includes questions about goal achievement, visit reasons, non-achievement reasons, and website suggestions, each with dropdown or text input fields. The "No" option for goal achievement is selected. The "visit reason" is listed as "Pricelist Request". The "non-achievement reason" is listed as "The form doesn't work well". There is a large empty text area for suggestions.

Report template for
unsuitable post

Want to Try...?



Thank you...