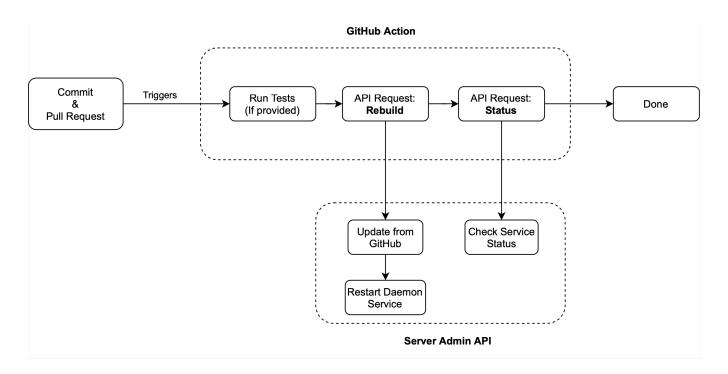
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Deployment

CI/CD Overview

CI/CD Pipeline Workflow



GitHub Actions

GitHub Actions makes it easy to automate all your software workflows, now with world-class CI/CD. Build, test, and deploy your code right from GitHub.



Currently **the testing step is disabled** due to lack of test cases/procedures, and will be re-enabled if the Backend Team and Frontend Team provides us viable test cases/procedures.

• Documentations: https://docs.github.com/en/actions

• Actions Script: node.js.yml

Server CI/CD Admin API

Standalone Restful Style API written in Python & Django. Deployed in Development Instances.

Source code: https://github.com/ccarner/COMP90082-RS-2021/tree/backend/develop/ServerAdminAPI

If you have any question regarding this sub-project, please contact Runfeng Du

①

This API is optional and designed solely for deployment and maintenance purposes, and is not part of the main application.

Backend Status: http://api.cervidae.com.au:8000/rest/info
 Backend Rebuild: http://api.cervidae.com.au:8000/rest/rebuild
 Backend Restart: http://api.cervidae.com.au:8000/rest/restart

Quick-Check: http://api.cervidae.com.au:8000/rest/check (0:inactive, 1:active)

Deployment Instructions



Make sure you have proper access to the Project GitHub Repo.

Automated Deployment:

one-click-setup.sh

This script will automatically deploy backend server and CI/CD admin API. Frontend deployment is temporary <u>disabled</u> until we finalise the deployment plan.

Supports Debian/Ubuntu, requires sudoer privilege.

Does not support Windows.

 $\label{local_model} $$ wget $ $ https://raw.githubusercontent.com/ccarner/COMP90082-RS-2021/backend/develop/one-click-setup.sh \ensuremath{\&\&} sudo chmod +x one-click-setup.sh \ensuremath{\&\&} sudo sh one-click-setup.sh one-click-setup.sh \ensuremath{\&\&} sudo sh one-click-setup.sh$

Frontend server (Manual):

1. Clone Repo (frontend/develop):

git clone git@github.com:ccarner/COMP90082-RS-2021.git && git checkout frontend/develop && cd Front_end

2. Update dependencies:

npm install

3. Start Dev server:

npm start

Backend server (Manual):



If you are from the **Frontend or Database team**, then **DO NOT** set up your own local backend server, instead use our dev server: http://api.cervidae.com.au:4000

1. Clone Repo (backend/develop):

 $\texttt{git clone git@github.com:ccarner/COMP90082-RS-2021.git \&\& git checkout backend/develop \&\& cd backend a close of the content of the conte$

2. Update dependencies:

npm install

3. Start server with log (Does not support Windows):

./start.sh

Or if you are using Windows:

npm start

Development Instances



Following instances are for dev purposes only, and not suitable for production.

Backend		
Address	http://api.cervidae.com.au:4000	
Status	ACTIVE	
Created	31 Mar 2021	
Scheduled Maintenance	None	
Git Branch	Backend/Develop	
Host provider	Oracle Cloud (Tokyo-1)	
Host OS	Ubuntu 20.04.2 LTS	
Host Specs	2 CPUs + 1GB RAM (2GB swap)	
Node.js Version	v10.19.0	
OneClick APIs	STATUS RESTART DAEMON REBUILD	
Contact	Runfeng Du	

Crash Logs:

f663896	SOLVED	
Log File	2021-04-17_15:42:35.backend.log	

```
Warning: connect.session() MemoryStore is not designed for a production environment, as it will leak designed for a production environment, as it will leak designed for a production environment, as it will leak designed for a production environment, as it will leak designed for a production environment, as it will leak designed for a production environment, as it will leak designed for a production environment, as it will leak designed for a production environment of the production of the prod
Stdout
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TypeError: Cannot read property '.id' of undefined as Subject.gestSubject.yolvologo ('root/node/backend/controllers/subject.js:89:44) at /root/node/backend/controllers/subject.js:89:44) at /root/node/backend/controllers/subject.js:89:45 at /root/node/backend/controllers/subject.js:89:45 at /root/node/backend/controllers/subject.js:49:13 at /root/node/backend/controllers/subject.js:49:13 at /root/node/backend/controllers/subject.js:49:81 at /root/node/backend/controllers/subject.js:49:49:49 at /root/node/backend/controllers/subject.js:49:49 at /root/node/backend
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ngm ERR SUBMONDIA_ESS.0.6 start: 'node inde.js'
ngm ERR SUBMONDIA_ESS.0.6 start: 'node inde.js'
ngm ERR SUBMONDIA_ESS.0.6 start: 'node inde.js'
ngm ERR File: starts 1
ngm ERR File: strobbly not a pondem with ngm. There is likely additional logging output above.
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| Import | Sept | Control | 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 npm ERR! A complete log of this run can be found in:
npm ERR! /root/.npm/_logs/2021-04-17705_15_00_852Z-debug.log
```

6962c79	NOT RESOLVED
Log File	2021-04-24_05:30:15.backend.log
Stdout	WEITING CONTROL AND AUTOMATICAL STATE OF THE