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2. Sprint 1 Work and Documentation 3
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Inception Work and Documentation

Team: RS team 2 - Database and Deployment team

Inception phase: 8/3/2021 - 2/4/2021

Github branch: G2

Github release tag: COMP90082_2021_RLSE_RS_INCEPTION

Documentation on Confluence

RS Team 2

1. Background
2. Team roles
3. Communication Plan
4. Project requirements
    a. Motivational Model
    b. Personas
    c. User Stories
    d. Acceptance criteria
    e. Interview questions with swen90013 group users
5. Design
    a. Prototype
6. Meetings
    a. Client meetings
    b. Group meetings
    c. Stand-up meetings
7. 0 Inception phase
    a. 16/03/2021 Inception planning
    b. 31/03/2021 Inception review
    c. 01/04/2021 Inception retrospective meeting notes
8. Quality
    a. Code Review Policy
    b. Git Policy
9. Resources
    a. Tech Resources

Sprint 1 Work and Documentation

Team: RS team 2 - Database and Deployment team

Sprint 1: 5/4/2021 - 30/4/2021

Github branch: backend/develop

Github release tag: COMP90082_2021_RLSE_RS_1.0.0

Coding

1. Implemented CI/CD on the **backend** branch in Github.
    a. GitHub Actions script, code can be found here
    b. Server Admin API, code can be found here
        i. Service status
        ii. Service restart
        iii. Update from GitHub & Rebuild
2. Implemented One-click deployment on **backend** branch in Github
    a. Install all the required dependencies and deploy the Backend service and code can be found here.
3. Updated database section in the readme file under backend/develop branch and added related files in docs and tests folder

Documentation on Confluence

RS Shared Deliverables:

1. Shared Goal Model
2. Shared User stories

Public Architecture:

1. Database Schema
2. Sequence Diagram
3. Activity Diagram

RS Shared Resources Database:

1. MongoDataBase
2. Redis

RS Shared Resources Deployment:

1. CI/CD Overview
2. Deployment Guides
3. Deployment Overview

RS Team 2 Testing:

1. Acceptance test for sprint 1
2. Database Unit Test for sprint 1
3. Integration test for Sprint 1

RS Team 2 Meetings:

1. Client meetings
2. Group meetings
3. Stand-up meetings

RS Team 2 Sprint 1:

1. 01/04/2021 Sprint 1 Planning
2. 05/05/2021 Sprint 1 retrospective
3. 5/5/2021 Sprint 1 review
4. Sprint1 checklist

RS Team 2 Sprint 2:

1. 5/5/2021 Sprint 2 planning

RS Team 2 Jira board:

1. Jira for Sprint 1
2. Jira for Sprint 2

RS Team 2 Quality:

1. Jira Policy

Added Architecture diagram and Component Diagram from the previous project to the current project:

RS Team 2 Architecture

1. Architecture diagram
2. Component Diagram

Sprint 2 Work and Documentation

Team: RS team 2 - Database and Deployment team

Sprint 2: 3/5/2021 - 28/5/2021

Github branch: backend/develop, but has already merged to master branch

Github release tag: COMP90082_2021_RLSE_RS_FINAL

Achievements

- Database

- Now locally deployed. (MongoDB cloud instance is preserved for data dumping).
- Schema Validation.
- Preliminary implementation of a Caching service: Redis.
    - The feature will not be part of the final release.
    - API/Docs provided in Confluence.

- Deployment

- Auto installation works for Nginx/Frontend, Backend, MongoDB, and CICD API.
    - **sudo sh -c "$(curl -fsSL https://raw.githubusercontent.com/ccarner/COMP90082-RS-2021/backend/develop/one-click-setup.sh)"**
    - Designed for & tested on **NeCTAR Ubuntu 20.04 LTS (Focal) amd64**.
- TLS/SSL now configured for all services (not automatically, guides provided in Confluence).
- Nginx reverse proxy configured.
    - All traffics go through Nginx now (with SSL)

Coding:

On the **backend** branch in Github

- Updated CI/CD script
- Auto installation script for Nginx/Frontend, Backend, MongoDB
- Caching encapsulation and function definition

On the confluence under Database of RS shared resources

- DB schema validation script

Documentation on Confluence

RS Shared Deliverables:

1. Shared Goal Model
2. Shared User stories

Public Architecture:

1. checked Database Schema to make sure it's the latest version

RS shared resources Database:

1. Created DB schema validation rules
2. Created DB schema validation script
3. Updated Redis

RS shared resources Deployment:

1. Updated Deployment Overview: added concurrency test
2. Updated Deployment Guides: added checklist, Enable SSL/TLS, Migrate MongoDB, and Frontend server

RS Team 2 Testing:

1. Acceptance test for sprint 2
2. Integration test for Sprint 2
3. Database Unit Test for sprint 2
4. Schema validation test

RS Team 2 Meetings:

1. Client meetings
2. Group meetings
3. Stand-up meetings

RS Team 2 Sprint 2:

1. 5/5/2021 Sprint 2 planning
2. 26/05/2021 Sprint 2 retrospective
3. 26/5/2021 Sprint 2 review
4. Sprint2 checklist

RS Team 2 Jira board:

1. Jira for Sprint 2