DevOps Bootcamp**

PropPulse

Date of Submission: [21/02/2024]

Reporting Period: [12/02/2024 to 23/02/2024]

Group name: ParkPulse
Group members: Bahaa Abou Shakra, Rimah Housamedine, Aleen Zeidan, Jalal Sobh, Raafat Al Halabi

Instructor: Elie Tahchi

Technical Advisor: Jana Kerbaj

Team Reprisentetive: Bahaa Abou Shakra

Section I: Overview of the Project

A web application tailored for managing internal operations in medical facilities, such as hospitals and polyclinics, featuring advanced functionalities including CI/CD, IaC configuration management, automated testing, monitoring and logging, containerization, orchestration and version control.

Section II: Summary of the Week's Overall Progress

- *We have completed the admin/user documentation that provides comprehensive instructions and guidelines to help admins & medical providers understand and effectively use the application;*
- *We have finalized the k8s chart that is the packaged set of predefined configurations that streamline the deployment of an application with a minikube cluster;*
- *We have successfully concluded our staging deployment process which involves preparing, containerizing and deploying the application to a staging environment using minikube;*
- *We have progressed significantly in editing the code, while also actively addressing in the database and backend tracking system, demonstrating a high-level attention to details and comprehensive refinement;*
- *We have formulated a comprehensive strategy to integrate infrastructure and code monitoring using the Newrelic platform. This entails leveraging the Newrelic's capabilities to monitor both infrastructure components and the performance of our code-base;*
- *We have executed a global deployment strategy utilizing cloudways, a cloud hosting platform recognized for its robust scalability and user-friendly management features. This platform enables us to efficiently deploy and manage our infrastructure across multiple geographic locations.*

Section III: Distribution of Tasks per Team Member

Deployment & documentation – Bahaa & Rimah;
UX/UI & architecture – Aleen;
Coding - Rimah;
Project plan & reporting – Bahaa.

Section IV: Unfinished Business and Pending Activities

Pending activities:
- *Preparing outlines to facilitate the creation of k8s & cloudways deployments documentations to guide the development of comprehensive documentation tailored to each scenario;*
- *Monitoring and logging using Newrelic – we have devised the plan for implementation; however the execution has not commenced yet.*