

Gaming News Website

Flexi - DevOPS Project
Group No. 14 | SIT CS-B (2021-25)

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01 Objective



To create a gaming news website that provides a straightforward and efficient way for users to stay updated on the latest gaming news.

- End Users: Gamers across different platforms like Playstation, XBOX, & PC.
- Company developing same type of website: IGN, Gamespot, GamesRadar+



02 Inspiration

We have been inspired to make our gaming news website project by [HitMarker](#)



As part of our DevOps project, we deployed a gaming website with the following features:

- Login/Register page
- Home page
- About Us page
- News page
- Game of the Year page

04 Mechanism

- Utilized Jenkins for the CI/CD pipeline
- Used Selenium for testing
- Integrated SonarQube for security checks
- Set up a Docker container for running the frontend and backend
- Created AWS EC2 instance using Terraform

4.1 Jenkins

- Automation tool used for streamlining the software development lifecycle
- Facilitates continuous integration and continuous delivery (CI/CD)
- Jenkins Pipeline consists of stages that process inputs and produce outputs, linking stages to automate tasks
- Allows flexible and efficient automation of building, testing, and deploying applications

4.2 Docker

- Open-source containerization platform
- Packages applications and their dependencies into isolated containers
- Containers are portable and can run consistently across different environments
- Enables running Docker images/containers on any machine without concern for the operating system

4.3 SonarQube

- Open-source platform for continuous inspection of code quality
- Identifies bugs, code smells, and security vulnerabilities
- Ensures adherence to best practices and maintains security and maintainability
- Supports multiple programming languages

4.4 Selenium

- Open-source tool for automating web browsers
- Enables automated testing by simulating user actions
- Supports functional and regression testing across browsers and platforms
- Compatible with multiple programming languages

4.5 Terraform

- Open-source infrastructure as code tool
- Automates the provisioning of cloud resources (servers, databases, networking)
- Ensures consistency through declarative configuration and versioning
- Supports multi-environment infrastructure management

Thank You!

