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MODULE Five– Project Two

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KEYNEISHA D. MCNEALEY

PROFESSOR HECKER

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# Evaluation of Operating Platforms for Gaming Applications

Linux

Server Side:

Advantages: Linux is robust, stable, and secure, making it ideal for server-side deployment.

Weaknesses: It requires technical expertise to manage effectively. Licensing costs are minimal due to its open-source nature.

Client Side:

Supports modern web browsers for HTML interfaces.

Development Tools:

Languages: JavaScript (Node.js), Python, Java.
IDEs: Visual Studio Code, IntelliJ IDEA.

## Mac

Server Side:

Advantages: Mac is user-friendly and integrates seamlessly with Apple products.

Weaknesses: Higher costs are associated with hardware and software licenses.

Client Side:

Supports modern web browsers for HTML interfaces.

Development Tools:

Similar to Linux (languages, IDEs).

# Windows

Server Side:

Advantages: Widely used with strong support for enterprise applications.

Weaknesses: Licensing costs can be significant.

Client Side:

Supports all major web browsers for HTML interfaces.

Development Tools:

Similar to Linux and Mac (languages, IDEs).

# Mobile Platforms (iOS and Android)

Client Side:

Responsive HTML interfaces through web browsers.

Consider cross-platform frameworks like React Native or Flutter.

Development Considerations:

Cost: Varies based on platform and tools.

Time: Developing multiple platforms can be time-consuming.

Expertise: Requires knowledge of different platforms and responsive design.

Development Tools:

Languages: JavaScript (Node.js), Python, Java.

IDEs: Visual Studio Code, IntelliJ IDEA.

Tools: Docker for deployment, Git for version control.

# Licensing costs associated with some widely used development tools:

Visual Studio Code (VS Code):

Cost: VS Code is free and open-source.

Advantages: It is lightweight, highly extensible, and supports various programming languages.

Weaknesses: There are no licensing costs.

## IntelliJ IDEA:

Cost: IntelliJ IDEA offers both a free Community Edition and a paid Ultimate Edition.

Advantages:

Community Edition: Free and suitable for most Java development.

Ultimate Edition: Paid, with advanced features for web, mobile, and enterprise development.

Weaknesses: Licensing costs apply to the Ultimate Edition.

Docker:

Cost: Docker Community Edition (CE) is free.

Advantages: It is a containerization tool that facilitates efficient deployment.

Weaknesses: There are no licensing costs for the Community Edition.

Git:

Cost: Git is open-source and free.

Advantages: It is widely used for version control.

Weaknesses: There are no licensing costs.