

Innovation Center for Education





THE YENEPOYA INSTITUTE OF ARTS SCIENCE COMMERCE AND MANAGEMENT

(a constituent unit of Yenepoya Deemed to be University)

WEB APPLICATION DEPLOYMENT ON IBM CLOUD FOUNDRY

PROJECT SYNOPSIS

MASTER OF COMPUTER SCIENCE AND APPLICATIONS

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9. Proposed Topic: web application deployment on ibm cloud foundry





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1.1 Introduction:

This project focuses on deploying a dynamic and interactive web application using IBM Cloud Foundry. The goal is to utilize cloud infrastructure for scalability, reliability, and efficient resource utilization while implementing a functional web application. The deployment process ensures that the application is accessible globally with minimal maintenance and optimal performance.

1.2 Key Features :

- ✓ Responsive User Interface
- ✓ Secure User Authentication and Data Handling
- ✓ Integrated Database for Dynamic Content
- ✓ Deployment on IBM Cloud Foundry
- ✓ Scalable and Modular Design

1.3 Technology Stack Frontend:

- ✓ HTML5, CSS3, JavaScript
- ✓ PHP
- ✓ MySQL database
- ✓ Apache Server (XAMPP)

Cloud: ✓ IBM Cloud Foundry ✓ GitHub for version control and collaboration

1.4 Specialized Field:

Cloud Computing This project falls under the field of cloud computing with a focus on Platform as a Service (PaaS) via IBM Cloud Foundry. It enables modern web application deployment practices in a real-world cloud environment.

2.1 Methodology:

A structured software development lifecycle approach has been followed for building and deploying the application.

2.2 Requirement Analysis and Tool Selection:

- ✓ Identify core features like user login, photo uploads, post creation, and profile management.
- ✓ Select HTML, CSS, JS for frontend and PHP, MySQL for backend.
- ✓ Choose IBM Cloud Foundry as the deployment platform.

2.3 System Architecture and Design:

- ✓ Follow MVC architecture.
- ✓ Create modular components for scalability and maintainability.
- ✓ Design a responsive and user-friendly interface.

2.4 Frontend and Backend Development:

- ✓ Develop UI with HTML5/CSS3 and JS.
- ✓ Backend logic using PHP.
- ✓ Database management via MySQL.

2.5 Deployment

- ✓ Set up IBM Cloud CLI.
- ✓ Configure manifest.yml for deployment.
- ✓ Push application to IBM Cloud Foundry.

2.6 Final Testing and Documentation

- ✓ Perform functional and usability testing.
- \checkmark Fix bugs and optimize performance.
- ✓ Prepare user manual and technical documentation.

3.1 Facilities Required for Proposed Work

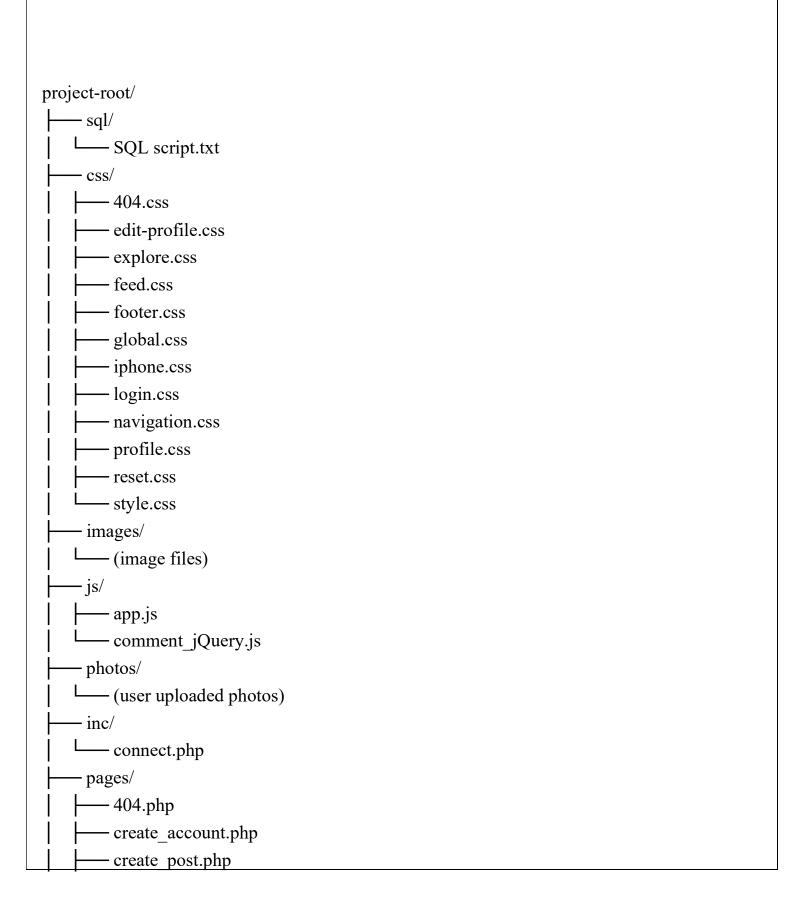
- ✓ Laptop/Desktop with 8 GB RAM or above
- ✓ High-speed internet
- √ IBM Cloud account

3.2 Development Environment :	
✓ VSCode IDE	
✓ XAMPP (Apache, MySQL, PHP)	
✓ Git & GitHub for version control	
3.3 Cloud Deployment Tools	
✓ IBM Cloud CLI	
✓ Cloud Foundry CLI	
3.4 Testing and Version Control	
✓ Postman for API testing	
✓ GitHub for managing code versions	
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3.5 Reporting Tools	
✓ MS Word for documentation	
✓ Diagram tools like draw.io for architecture representation	





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	edit-profile.php
	explore.php
	feed.php
	follow.php
	image-detail.php
	index.php
	like.php
	login.php
	post.php
	profile.php
	registration.php
	signin.php
	submit-post.php
	submit-profile.php
	unfollow.php
 	— .htaccess
<u> </u>	— README.md
 	— comment.php
L	— (other potential top-level files)