**INTERNSHIP REPORT: INTERN**

# AT BAJAJ FINSERV LIMITED

## DSN4096 INTERNSHIP REPORT

**(CAPSTONE PHASE -II)**

***Submitted by***

## Kumkum Verma (20BCG10070)

*in partial fulfillment for the award of the degree of*

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*In*

### COMPUTER SCIENCE ENGINEERING

**WITH SPECIALIZATION IN GAMING TECHNOLOGY**



**SCHOOL OF COMPUTING SCIENCE AND ENGINEERING**

**VIT BHOPAL UNIVERSITY KOTHRIKALAN, SEHORE MADHYA PRADESH - 466114**

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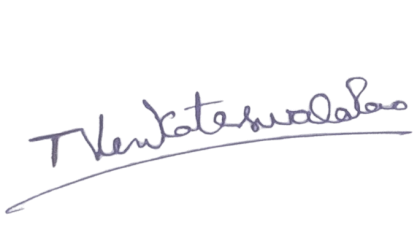
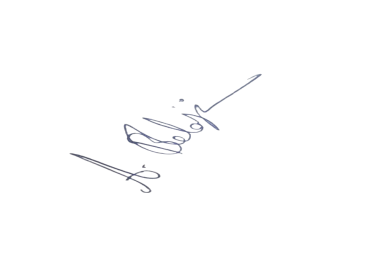
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## BONAFIDE CERTIFICATE

Certified that this project report titled **“Internship Report: Intern**

**at Bajaj Finserv Limited”** is the bonafide work of

“**Kumkum Verma (20BCG10078)”** who carried out the project work under my supervision. Certified further that to the best of my knowledge the work reported at this time does not form part of any other project/research work based on which a degree or award was conferred on an earlier occasion on this or any other occasion.



|  |  |
| --- | --- |
| **PROGRAM CHAIR/SUPERVISOR** | **PROJECT CO-ORDINATOR** |
| Dr Balaji A., Program Chair | Mr. Venkateswara Rao, School of |
| School of Computing | School of Computing Science and |
| Science and Engineering. | Engineering. |
| VIT BHOPAL UNIVERSITY. | VIT BHOPAL UNIVERSITY. |

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## LIST OF ABBREVIATIONS

* APIM – API Management
* API – Application Programming Interface
* MVC – Model View Controller

## ABSTRACT

This internship report chronicles my immersive exploration of Operating OOPS, asp.Net (C#) , Azure APIM Service, DevOps Tools. Commencing with basic C# concepts, I advanced to intricacies of Object-Oriented Programming in C#, delving into topics like inheritance and polymorphism. Concurrently.Utilizing Git and GitHub for version control facilitated collaborative development, enhancing project management practices. The apex of this journey was the development of the APIM Automation project, where theoretical knowledge seamlessly translated into practical application. This endeavor honed not only my technical prowess but also developed crucial skills in problem-solving, teamwork, and project execution. As the report unfolds, the APIM Automation project is detailed, showcasing its features, implementation, and the invaluable lessons gleaned along the way. This comprehensive experience equips me with a solid foundation in computer science, readying me for future challenges and innovations in the dynamic realm of technology.

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**CHAPTER -1**

**BASIC C# PROGRAMMING**

### 1.1 INTRODUCTION

In this section, I provide an overview of the scope and objectives of my internship, outlining the key areas of focus such as operating systems, version control systems, and programming languages. Additionally, I briefly introduce the project undertaken during the internship, setting the stage for the subsequent sections.

### 1.2 C#AND VERSION CONTROL

This segment details my exploration into the fundamentals of C# and version control using Git and GitHub. I elucidate the core concepts of operating systems, including process management, memory management, file systems, and inter- process communication. Furthermore, I delve into the basics of Git and GitHub, highlighting their significance in collaborative software development and version control practices.

### 1.5 SUMMARY

In summary, this section serves as a cornerstone in my internship journey, laying the groundwork for subsequent learning and practical application. Through the exploration of operating systems, version control systems, and the mastery of C# followed by the transition to asp.net , web APIs, I have gained a comprehensive understanding of foundational concepts in software development. These experiences have not only equipped me with essential skills but also instilled in me a deep appreciation for the intricacies of programming languages and the importance of effective collaboration. As I delve deeper into advanced topics and project implementations in the following sections, I am poised to apply this knowledge and expertise to tackle complex challenges and contribute meaningfully to the field of computer science.

**CHAPTER -2**

**OOPs and Asp .Net**

### 2.1 INTRODUCTION

This section delves into Object-Oriented Programming (OOP) principles and advanced asp.net (MVC and Web API). OOP fundamentals such as abstraction, encapsulation, inheritance, and polymorphism set the stage for understanding their practical applications. Advanced topics like constructors, destructors, inline functions, virtual functions, and typecasting operators enhance our proficiency in C# empowering us with tools for efficient code optimization and dynamic behavior. Additionally, we explore the versatility of vectors and the Standard Template Library (STL) for streamlined data manipulation tasks. Together, these concepts equip us to tackle complex software challenges and innovate in C# programming.

### 2.2 UNVEILING OOPS

This section marks a pivotal juncture in my internship journey as I delve into the paradigm of Object-Oriented Programming (OOP). I elucidate the core principles of OOP, including abstraction, encapsulation, inheritance, and polymorphism. Through theoretical discussions and practical examples, I elucidate the importance of these concepts in software design and development.

Continuing the discourse on OOP, I delve into the concepts of constructors and destructors in C#. I delineate the different types of constructors, including default constructors, parameterized constructors, copy constructors, and their respective applications. Furthermore, I elucidate the role of destructors in resource management and memory deallocation, underscoring their significance in object lifecycle management.

### 2.3 ADVANCE CONCEPTS IN ASP .Net

In this subsection, advanced concepts in ASP.NET development are discussed, focusing on two prominent aspects:

**2.3.1 MVC E-Commerce Website:**

E-Commerce Website for Shoe Shopping: In this section, we explore the development of an E-Commerce website specifically tailored for shoe shopping. The website follows the Model-View-Controller (MVC) architectural pattern, which separates the application into three interconnected components: Model, View, and Controller.

**Technical Details:**

1. **Model (M):**
   * The model represents the data and business logic of the application. For the shoe shopping website, the model would include entities such as Product, Category, User, and Order.
   * Each product may have attributes like name, description, price, size, color, etc.
   * Entity Framework or any other ORM (Object-Relational Mapping) tool can be used to map these entities to the database.
2. **View (V):**
   * The view is responsible for displaying the user interface to the end-users. In our case, views for the shoe shopping website would include pages for product listings, product details, shopping cart, checkout, etc.
   * HTML, CSS, and JavaScript are used to design and implement these views. Razor syntax in ASP.NET MVC allows embedding C# code directly into the HTML markup to dynamically generate content.
3. **Controller (C):**
   * Controllers handle user input, process requests from the views, and interact with the model to retrieve or manipulate data.
   * Each controller corresponds to a specific area of functionality. For instance, a ProductController would handle operations related to product management such as displaying product details, adding products to the cart, etc.
   * Actions within controllers are invoked based on user requests (e.g., HTTP GET or POST requests).
   * Controllers also manage routing, directing incoming requests to the appropriate action method.
4. **Routing:**
   * ASP.NET MVC framework provides a routing mechanism that maps URLs to controller actions. For example, a URL like /products/details/123 would be routed to the Details action of the ProductController, passing the product ID as a parameter.
   * Route configuration defines these mappings, allowing for clean and SEO-friendly URLs.
5. **Authentication and Authorization:**
   * The website would include features for user authentication and authorization to ensure secure access to certain functionalities such as placing orders, viewing order history, etc.
   * ASP.NET Identity framework can be utilized for user management, registration, login, and role-based authorization.
6. **Payment Gateway Integration:**
   * Integration with payment gateways (e.g., PayPal, Stripe) allows users to make secure online payments.
   * Payment processing logic is implemented to handle payment transactions securely and reliably.
7. **Responsive Design:**
   * With the increasing use of mobile devices, responsive design techniques are employed to ensure the website adapts and renders optimally across various screen sizes and devices.

**2.3.2 Web API:**

Introduction to Web API: In this section, we explore the development of Web APIs in ASP.NET, focusing on building RESTful services to facilitate data communication between clients and servers. Web APIs provide a platform-independent way of exposing application functionalities and data.

**Technical Details:**

1. **RESTful Architecture:**
   * Web APIs adhere to the principles of Representational State Transfer (REST), which emphasize a stateless client-server architecture with a uniform interface.
   * RESTful APIs use standard HTTP methods (GET, POST, PUT, DELETE) to perform CRUD (Create, Read, Update, Delete) operations on resources.
2. **Controller as API Endpoints:**
   * In ASP.NET Web API, controllers are used to define API endpoints.
   * Each controller action represents a specific API endpoint responsible for handling incoming requests and generating appropriate responses.
   * Attribute-based routing or convention-based routing can be used to define the URL patterns for accessing API endpoints.
3. **Serialization and Deserialization:**
   * JSON (JavaScript Object Notation) or XML formats are typically used for data serialization and deserialization between clients and servers.
   * ASP.NET Web API provides built-in support for serializing and deserializing data objects to and from JSON or XML format.
4. **Input Validation and Error Handling:**
   * Input validation mechanisms are implemented to ensure data integrity and security.
   * Error handling strategies are employed to provide meaningful error messages and handle exceptions gracefully.
5. **Authentication and Authorization:**
   * APIs may require authentication and authorization mechanisms to restrict access to certain resources.
   * Token-based authentication (e.g., OAuth 2.0) and role-based authorization can be implemented to secure API endpoints.

### Versioning:

* + API versioning allows for managing changes and updates to API endpoints without breaking existing client applications.
  + Versioning can be achieved through URL-based versioning, query string parameters, or HTTP headers.

### Testing and Documentation:

* + API endpoints should be thoroughly tested using tools like Postman or Swagger.
  + API documentation plays a crucial role in guiding developers on how to use the API effectively. Tools like Swagger UI can automatically generate interactive API documentation based on code annotations.

By implementing these technical aspects, ASP.NET Web API facilitates seamless communication between client applications and server-side components, enabling the exchange of data in a standardized and efficient manner.

### 2.4 SUMMARY

By delving into these advanced concepts in C++, I expanded my repertoire of programming techniques and acquired the skills necessary to tackle complex software development challenges effectively. Through theoretical exploration, practical experimentation, and hands-on projects, I solidified my understanding of these topics, paving the way for further growth and proficiency in C++ programming and software engineering.

**CHAPTER -3**

**APIM AUTOMATION SYSTEM**

### 3.1 INTRODUCTION

During my internship, I had the opportunity to work on the APIM Management System project, which aimed to streamline and automate Azure Gateway Service processes. This project was initiated with the objective of enhancing efficiency for internal developers by automating API access and hosting through Azure's APIM service.

### 3.2 PROJECT OVERVIEW

The project focused on leveraging Azure's APIM service to automate various tasks related to API management. It aimed to simplify API access and hosting procedures, thereby saving valuable time for internal developers. By centralizing API management and automating key processes, the project aimed to optimize resource utilization and enhance productivity.

### 3.3 FEATURES

* **Automation of API Access**: The system automated the process of granting access to APIs, eliminating manual intervention and reducing turnaround time for developers.
* **Automated API Hosting**: Through integration with Azure's APIM service, the project facilitated automated hosting of APIs, simplifying deployment procedures for development teams.
* **Centralized Management**: The system provided a centralized platform for managing APIs, enabling easy monitoring, tracking, and maintenance of API resources.
* **Scalability and Flexibility**: Leveraging the scalability of Azure's infrastructure, the system offered flexibility to adapt to evolving business needs and increasing demands for API services.

**3.4 IMPLEMENTATION**

The implementation phase involved the development and integration of automation scripts and tools to interface with Azure's APIM service. This included writing code to automate API access provisioning, deployment, and management tasks. Additionally, the project required configuring APIM policies and security measures to ensure robust API governance and compliance.

#### 3.5 LEARNING OUTCOMES AND TEAMWORK

Through this project, I gained valuable insights into cloud-based API management solutions, particularly Azure's APIM service. I honed my skills in software development, scripting, and cloud computing technologies. Collaborating with team members, I learned the importance of effective communication, teamwork, and project coordination in achieving common goals.

Importance of Teamwork:

Working in a team environment provided numerous benefits, including:

1. Synergy: Collaboration among team members fostered creativity, innovation, and synergy, leading to the development of robust solutions and efficient problem-solving.
2. Diverse Perspectives: Each team member brought unique perspectives, skills, and experiences to the table, enriching the overall development process and promoting holistic problem analysis.
3. Support and Motivation: Teammates provided support, encouragement, and motivation to overcome challenges and setbacks, fostering a positive and conducive work environment.

Task Delegation and Responsibility:

Effective task delegation and individual responsibility were crucial for project success, as they:

1. Optimized Resource Utilization: By assigning tasks based on individual strengths and expertise, we optimized resource utilization and enhanced overall productivity.
2. Promoted Accountability: Each team member was assigned specific tasks and deliverables, fostering a sense of accountability and ownership over their assigned responsibilities.
3. Mitigated Risks: Task delegation helped distribute workload evenly and mitigate risks associated with project dependencies or bottlenecks, ensuring smooth progress and timely delivery.
4. Encouraged Skill Development: Delegating tasks provided opportunities for skill development and knowledge sharing among team members, empowering individuals to learn and grow in their respective areas of expertise.

Lessons Learned:

Through the experience of working in a team environment and delegating tasks, I gained valuable insights and lessons, including:

1. Communication is Key: Effective communication was essential for clarifying expectations, sharing progress updates, and addressing challenges collaboratively.
2. Flexibility and Adaptability: Flexibility in task assignments and readiness to adapt to changing requirements were critical for agile project management and successful task execution.
3. Trust and Mutual Respect: Trust and mutual respect among team members were foundational for fostering a positive team culture, encouraging open collaboration, and resolving conflicts constructively.
4. Clear Goals and Objectives: Clear delineation of project goals, objectives, and individual responsibilities facilitated alignment and clarity, enabling focused efforts towards achieving common objectives.

#### 3.7 SUMMARY

### In summary, the APIM Management System project provided a hands-on learning experience in implementing automation solutions for API management using Azure technologies. By automating API access and hosting processes, the project contributed to optimizing developer productivity and resource utilization within the organization. Overall, this internship opportunity has been instrumental in enhancing my skills and understanding of cloud-based service automation and API management principles.

### CHAPTER 4: INTERNSHIP EXPERIENCE AND LEARNING OUTCOMES

#### 4.1 INTRODUCTION

The internship journey at KPIT Technologies has been a transformative experience, offering a plethora of learning opportunities, professional challenges, and personal growth. This chapter delves into the intricacies of the internship experience, reflecting on the journey from inception to conclusion, and highlighting the myriad lessons learned along the way.

#### 4.2 IMMERSIVE LEARNING ENVIRONMENT

From the moment I stepped into Bajaj Finserv, I was immersed in a vibrant learning environment that fostered curiosity, creativity, and collaboration. The internship program was meticulously designed to provide hands-on experience in software development for automotive applications. Through a combination of structured training sessions, mentorship programs, and project assignments, interns were encouraged to explore the depths of their technical capabilities while gaining practical insights into industry practices and standards.

#### 4.3 TECHNICAL SKILL DEVELOPMENT

One of the primary objectives of the internship was to enhance technical proficiency in programming languages and software development tools relevant to the automotive industry. Through dedicated training modules and project-based learning, interns delved deep into the intricacies of C#, OOPS and asp .Net concepts. From mastering the nuances of memory management to harnessing the power of APIM , every aspect of the programming languages was meticulously explored and applied in real-world scenarios.

Furthermore, the internship provided exposure to industry-standard technologies such as APIM, Git version control, Swagger. Understanding the principles and practices of APIM laid the foundation for developing scalable and modular software components compliant with automation standards. Similarly, proficiency in Git version control facilitated seamless collaboration, code management, and version tracking, ensuring project integrity and continuity.

#### 4.4 MENTORSHIP AND COLLABORATION

Central to the internship experience was the invaluable guidance and mentorship provided by seasoned professionals at Bajaj Finserv. Mentors served as pillars of support, offering insights, advice, and constructive feedback to navigate the complexities of software development projects. Their wealth of experience and expertise proved instrumental in shaping interns' learning journeys, fostering a culture of continuous learning and growth.

Moreover, collaboration with peers and team members enriched the internship experience, fostering a sense of camaraderie, and encouraging knowledge sharing. Through collaborative project work, interns gained exposure to diverse perspectives, problem-solving approaches, and best practices, enhancing both technical competence and interpersonal skills.

#### 4.5 PERSONAL AND PROFESSIONAL GROWTH

Beyond technical skill development, the internship journey catalyzed significant personal and professional growth. Interns cultivated resilience in the face of challenges, adaptability in navigating evolving project requirements, and effective communication skills in articulating ideas and collaborating with cross-functional teams. Moreover, exposure to the finance industry broadened horizons, instilling a deeper understanding of the symbiotic relationship between technology and mobility, and the pivotal role of software solutions in shaping the future of transactions.

#### 4.6 LEARNING OUTCOMES AND FUTURE PROSPECTS

In reflection, the internship at Bajaj Finserv yielded profound learning outcomes and insights that transcend the confines of the internship period. Armed with newfound technical skills, industry knowledge, and personal growth, interns are poised to embark on promising career trajectories in the dynamic realm of Finance Industry. The internship experience serves as a springboard for future endeavors, imbued with a sense of purpose, passion, and readiness to tackle the challenges and opportunities that lie ahead.

**CHAPTER 5.**

**CONCLUSION**

#### 5.1 INTRODUCTION

The culmination of the internship journey at Bajaj Finserv marks not only the end of a significant chapter but also the beginning of a new phase filled with reflections, insights, and aspirations. This chapter serves as a comprehensive reflection on the internship experience, addressing the objectives achieved, skills acquired, results observed, and challenges encountered throughout the internship period.

#### 5.2 ACHIEVEMENT OF OBJECTIVES

The primary objectives set forth at the onset of the internship were aimed at fostering personal and professional growth, gaining practical experience in software development for automotive applications, and understanding industry-standard practices. These objectives have been unequivocally achieved through a combination of structured training, hands-on project work, and mentorship.

The internship provided ample opportunities to enhance technical proficiency in programming languages such as C#, Typescript, and API concepts. Through rigorous training modules and project assignments, I developed a deep understanding of language fundamentals, data structures, algorithms, and best practices in software development.

Moreover, the internship facilitated exposure to industry-standard technologies including APIM, Git version control. Understanding the principles and applications of these technologies has not only broadened my technical skill set but also equipped me with the knowledge necessary to navigate complex software development projects in a professional setting.

Furthermore, the internship served as a gateway to the software industry, offering insights into the intricacies of finance industry, the evolving landscape of mobility solutions, and the role of technology in shaping the future of finance. By working on real-world projects and collaborating with industry professionals, I gained a holistic understanding of the challenges and opportunities inherent in this dynamic sector.

#### 5.3 SKILLS ACQUIRED

The internship experience has been instrumental in acquiring a diverse range of scientific and professional skills essential for success in the field of automotive software development. These skills encompass technical competencies, critical thinking abilities, communication skills, and project management capabilities.

Technical skills acquired during the internship include proficiency in programming languages (C#, Angular, Typescript), understanding of Azure Gateway Service (APIM), version control systems (Git). Additionally, hands-on experience in software design, development, testing, and documentation has honed practical problem-solving abilities and coding proficiency.

Moreover, the internship has fostered the development of critical thinking skills essential for analyzing complex problems, identifying optimal solutions, and making informed decisions. Through project-based learning and mentorship, I have learned to approach challenges with creativity, adaptability, and a growth mindset, thereby enhancing my problem-solving capabilities in diverse contexts.

Communication skills have also been enhanced through regular interactions with mentors, peers, and project stakeholders. Effective communication, both verbal and written, has been crucial for articulating ideas, collaborating with team members, and presenting project outcomes to stakeholders.

Furthermore, exposure to agile project management methodologies such as Scrum has instilled project management capabilities, including task prioritization, time management, and sprint planning. By participating in sprint ceremonies and collaborating with cross-functional teams, I have developed a deeper appreciation for the importance of collaboration, transparency, and adaptability in achieving project

objectives.

#### 5.4 RESULTS, OBSERVATIONS, AND WORK EXPERIENCES

The internship experience has been replete with meaningful results, observations, and work experiences that have contributed to personal and professional growth. Some notable outcomes include:

Contribution to real-world projects: Throughout the internship, I had the opportunity to contribute to various projects aimed at developing software solutions for automotive applications. From designing software libraries to integrating components into larger systems, each project experience provided valuable insights into the practical applications of software development principles and techniques.

Observations on industry practices: Exposure to industry-standard practices and methodologies offered valuable insights into the nuances of automotive software development. Observing how projects are executed, teams are organized, and challenges are addressed provided a firsthand glimpse into the functioning of a leading technology company in the automotive domain.

Work experiences and collaborations: Collaborating with experienced professionals, mentors, and peers enriched the internship experience, fostering a culture of learning, collaboration, and innovation. Through collaborative project work, I gained exposure to diverse perspectives, problem-solving approaches, and best practices, enhancing both technical competence and interpersonal skills.

Moreover, the internship provided opportunities to interact with stakeholders, attend industry events, and engage in professional development activities, thereby broadening my professional network and enhancing career prospects in the automotive industry.

#### 5.5 CHALLENGES ENCOUNTERED

While the internship experience has been immensely rewarding, it has also presented its fair share of challenges. Adapting to new technologies, mastering complex concepts, and managing project timelines were some of the challenges encountered during the internship. However, these challenges served as opportunities for growth, pushing me to expand my skill set, foster resilience, and develop effective problem- solving strategies.

Additionally, navigating the dynamic nature of software development projects, coordinating with cross-functional teams, and balancing competing priorities required effective communication, collaboration, and time management skills. Overcoming these challenges through perseverance, teamwork, and determination further reinforced the importance of resilience and adaptability in the face of adversity.

#### 5.6 REFLECTION AND FUTURE PROSPECTS

In reflection, the internship at Bajaj Finserv has been a transformative journey that has broadened horizons, enriched skill sets, and prepared for future endeavors in the field of software development. The hands-on learning, mentorship, and collaborative work environment have provided a solid foundation for success, instilling confidence and passion for continued learning and professional growth.

Looking ahead, the internship experience serves as a springboard for future endeavors, imbued with a sense of purpose, passion, and readiness to tackle the challenges and opportunities that lie ahead. Armed with newfound skills, knowledge, and experiences, I am poised to embark on promising career trajectories, contribute meaningfully to the Software industry, and make a positive impact on the future of mobility solutions.

In conclusion, the internship at Bajaj Finserv has been a transformative experience that has shaped personal and professional growth, fostered lifelong learning, and instilled a sense of purpose and direction. As I embark on the next chapter of my journey, I am grateful for the experiences and lessons gained during this internship, which will undoubtedly shape my future endeavors in profound and meaningful ways.

OFFER LETTER - [Offer Letter Bajaj Finserv](https://drive.google.com/file/d/10XdpCPCQlVfilGkxZCsPF5Zt3VepupOe/view?usp=drive_link)

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