

# Weekly Progress Report

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Domain: Java Fundamentals

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**Week Ending: 02**

## **I. Overview:**

This week, the primary focus was on understanding Java Fundamentals and contributing to java projects. Additionally, efforts were made to leverage learning resources for skill enhancement.

## **II. Achievements:**

### **1. Introduction:**

- Type : Open Source Software
- Current Version : JavaSE17(Sep 14th 2021)
- Initial Version : JDK 1.0( Jan 1996)
- Creator : James Gosling & team
- Initial Vendor : SUN Micro System
- Current Vendor : Oracle

### **2. History:**

- James Gosling , Mike Sherida and Patrick Naughton initiated the java language project in june 1991.
- The team called Green Team.
- In 1995 OAK was renamed as JAVA because oak is a trademark of OAK TECHNOLOGIES.

### **3. Features:**

- Simple
- Platform Independent
- Portable

- Architecture-neutral
- Multi-threaded
- Secured

### III. Challenges:

- Concurrency and Multithreading
- Complex Syntax
- Garbage Collection
- Exception Handling
- Security Concerns
- Memory management

### IV. Learning Resources:

#### 1. USC\_TIA Documentation:

- Utilized USC\_TIA official documentation for reference and troubleshooting.
- Attended relevant webinars and online tutorials to deepen understanding.

#### 2. Java Learning Resources:

- **Oracle's Official Java Documentation:** Comprehensive documentation for the Java language and APIs
- **Java SE Specifications:** Standards and specs for various Java editions

### V. Additional Comments:

*Learnt a lot from this week 2 module about java fundamentals through this opportunity.*