

EDUCATIONAL INTERNSHIP REPORT
MINISTRY OF EDUCATION AND SCIENCE OF THE KYRGYZ
REPUBLIC

Ala-Too International University

Faculty of Engineering and Informatics

Department

Department of Applied Mathematics and Informatics

Student's Full Name and group

Timur Ibragimov Ibragimovich COM22B

Advisor's Full Name and regalia

Ilmar Gatiyatullin

Goal/s:

Skill Development, Knowledge Acquisition, Professional Networking, Practical Experience, Personal Growth

Internship schedule

dd/mm/yy | week day | 00:00-00:00

schedule has to represent at least 50% of hours which you spend on your project

02/12/24Monday 09:00-18:00

03/12/24Tuesday 09:00-18:00

04/12/24Wednesday09:00-18:00

05/12/24Thursday 09:00-18:00

06/12/24Friday 09:00-18:00

09/12/24Monday 09:00-18:00

10/12/24Tuesday 09:00-18:00

11/12/24Wednesday09:00-18:00

12/12/24Thursday 09:00-18:00
13/12/24Friday 09:00-18:00
16/12/24Monday 09:00-18:00
17/12/24Tuesday 09:00-18:00
18/12/24Wednesday09:00-18:00
19/12/24Thursday 09:00-18:00
20/12/24Friday 09:00-18:00

Objectives:

Maintain Project Engagement

Ensure that at least 50% of total working hours are allocated to the project, tracking time diligently to meet this benchmark.

Deliver Key Deliverables

Complete specific project milestones within allocated schedules, prioritizing high-impact tasks.

Optimize Time Management

Utilize scheduling tools to organize daily activities effectively, ensuring project-related tasks are addressed during core hours.

Enhance Collaboration

Engage in regular team meetings and discussions to align with project goals and deliverables.

Skill Development for Project-Specific Needs

Focus on improving expertise in tools and technologies directly impacting the project, such as advanced Java features, Spring Boot, Vaadin, or PrimeFaces.

Problem-Solving and Innovation

Dedicate time to resolving technical challenges within the project, leveraging research and creative solutions.

Document and Report Progress

Keep a detailed log of completed tasks and hours spent to ensure transparency and compliance with the 50% condition.

Prioritize Critical Tasks

Identify and address high-priority tasks early in the schedule to maximize productivity during project hours.

Continuous Improvement

Regularly review time allocation and output quality to ensure adherence to the condition and improve where necessary.

Achieve Balance

While prioritizing project hours, ensure sufficient time is allocated for secondary tasks without compromising overall project success.

Application Balance kg <https://balance.kg/>

Conclusions

The internship has been a valuable learning experience, providing hands-on exposure to real-world projects and professional environments. Through dedicated work on challenging tasks, I have enhanced my technical skills, particularly in backend and frontend development, system optimization, and collaborative problem-solving.

Tasks ranking

Learned a lot:

- Designed and implemented RESTful APIs for various services, ensuring seamless integration between front-end and back-end systems
- Managed and optimized database interactions using JPA and Hibernate, ensuring efficient query execution.
- Worked extensively with Spring Boot to develop robust and scalable microservices.
- Configured SMTP services for email notifications, handling properties and session management
- Implemented functionality for handling payment status checks and integrating JMS for asynchronous messaging.
- Developed interactive administrative panels using Vaadin, enabling efficient management of data and services.
- Built user-friendly interfaces with Thymeleaf and JSF, incorporating rich text formatting, validations, and dynamic UI elements.
- Utilized PrimeFaces for implementing dialogs and data display features, ensuring smooth user experiences.
- Worked on parsing and processing QR codes dynamically, handling complex structures without recursion.
- Addressed SSL-related issues in Tomcat-based microservices, ensuring secure communication.