The Ministry of Education of the Republic of Belarus

BELARUSIAN STATE UNIVERSITY

OF INFORMATICS AND RADIOELECTRONICS

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|  | | | | |
| Faculty | Information Technologies and Control | Department | Information Technologies in Automated Systems | |
| Speciality | 1–53 01 02 | Specialization | | 01 |

APPROVED BY

The Head of the Information Technologies in Automated Systems Department

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(Signature)

“\_\_\_\_\_\_”\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_2022

THE TASK

for the diploma project

to be prepared by the student Tu Xinyuan

**1** The theme of the project

Mobile payment automated system

Order No 865–c dated 30.03.2022.

**2** Project preparation deadline: 01 06 2022

**3** Initial data to the project: Initial administrator’s account and configuration.

Software to be used: Linux Debian 11.0, MySQL 5.7, Jetbrains IntelliJ IDEA, Google Android Studio and Redis.

**4** Explanatory note content:

Introduction

**1** Analysis of subject area

**2** Information system structure of mobile payment system

**3** Information system software implementation

**4** System development and manual

**5** Economic feasibility study

Conclusion

References

Appendix A (mandatory) Code example

Diploma Project Register

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| **5** Drawings: | | |
| **1** Organizational structure of mobile payment system (А1, 1 sheet) | | |
| **2** Flowchart diagram of session payment (А1, 1 sheet) | | |
| **3** Sequence diagram of session payment (А1, 1 sheet) | | |
| **4** Collaboration diagram of payment process (А1, 1 sheet) | | |
| **5** Use case diagram of user and merchant (А1, 1 sheet) | | |
| **6** IDEF0 diagram of mobile payment automated system (А1, 1 sheet) | | |
| **6** The task for the economics feasibility study | | |
| Estimated cost of development and implementation of a mobile payment system targeting for merchants and consumers in Belarus. | | |
| Given by |  | I. V. Smirnov |

project progress schedule

|  |  |  |  |
| --- | --- | --- | --- |
| Project progress stage | Stage size (%) | Stage deadline | Note |
| Collection and study of materials on automation in oil companies. Automation scope analysis | 15 – 20 | 27.01 – 14.02 |  |
| Information system structure design. Development of algorithms. Database design | 20 – 15 | 17.02 – 14.03 |  |
| Software design | 20 – 15 | 7.03 – 04.04 |  |
| Software debugging and testing | 15 – 20 | 07.04 – 30.04 |  |
| Economic feasibility study | 10 | 07.05 – 16.05 |  |
| Preparation of the explanatory note and drawings | 20 | 19.05 – 10.06 |  |

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| The task is given on |  | Supervisor | |  | | A.F.Trofimovich |
| (date)  I hereby accept the task for implementation | | |  | | Tu Xinyuan | |