Laboratory Work No. 1 Topic Selection and Requirements Formation

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"Bank Credit Department System"

1 System Description

"Bank Credit Department System" is designed for optimizing the processing and analysis of credit-related processes within the bank. The main features of the system include:

- Credit Application Processing: Creation, submission, and processing of credit applications.
- Scoring and Creditworthiness Assessment: Automated analysis of the creditworthiness of the applicant.
- **Document Management**: Creation, modification, storage, and transmission of documents.
- Customer Communication: Communication with customers through all available channels (chat, SMS, messengers, social networks, etc.).
- Reporting and Analytics: Creation of reports for evaluating the credit portfolio and monitoring its status.
- Integration with External Systems: Interaction with other credit organizations, government agencies, etc.

2 Key Actors

- Customers: Individuals and legal entities submitting credit applications.
- Credit Specialists: Employees responsible for processing and analyzing credit applications.
- Customer Relationship Managers: Employees who communicate with customers, guiding them from start to finish.

- Analysts: Specialists providing information about the productivity of the department and responsible for reporting.
- System Administrators: Technical specialists maintaining system functionality and improving its fault tolerance.
- **Department Managers**: Managers responsible for risk management and making strategic decisions.
- Lawyers: Specialists dealing with legal aspects of all agreements and documents.
- **Financial Analysts**: Employees analyzing and forecasting the economic situation and preparing reports.
- **Security Specialists**: Specialists responsible for system security, data preservation, fraud prevention, and cyber attacks.

3 Actions, Access, and Capabilities for Key Actors

3.1 Customers

- Actions: Creating, modifying, and submitting applications, providing documents.
- Access: User's personal account.
- Capabilities: Monitoring application status, communicating with specialists through communication channels (chat or email).

3.2 Credit Specialists

- Actions: Processing applications, making credit decisions.
- Access: Application management system, client documents, scoring system.
- Capabilities: Viewing, editing applications, generating reports and providing them to management.

3.3 Customer Relationship Managers

- Actions: Communicating with customers, consulting on credit products.
- Access: Client documents, chat, corporate email.
- Capabilities: Creating applications, editing applications, requesting and providing documents.

3.4 Analysts

- Actions: Data analysis, portfolio monitoring, report preparation.
- Access: General data on the work of the credit department, analysis tools.
- Capabilities: Creating, editing, and providing reports.

3.5 System Administrators

- Actions: System maintenance, corporate computer setup, server setup and maintenance, problem resolution, error control.
- Access: Full access to the system and its settings.
- Capabilities: System configuration, user access management, data security.

3.6 Department Managers

- Actions: Monitoring employee performance, making strategic decisions.
- Access: Reports, tasks, chat, email.
- Capabilities: Viewing reports, managing personnel through communication channels (chat, email).

3.7 Lawyers

- Actions: Creating, checking, and preparing legal documents, consulting on legal issues.
- Access: Document database.
- Capabilities: Viewing, creating, and editing documents.

3.8 Financial Analysts

- Actions: Analyzing and forecasting the economic situation, preparing reports.
- Access: Access to data related to the financial component of the department.
- Capabilities: Creating, editing, and providing reports.

3.9 Security Specialists

- **Actions**: Ensuring protection against all types of attacks, fraud, system monitoring.
- Access: Full access to the security system and data.
- Capabilities: Preventing attacks, changing user access rights, data control.

4 Application Value Description

- Accelerate application processing: Automation of the system helps specialists analyze the application faster and make a decision.
- Improve creditworthiness assessment accuracy: Increasing the security of the bank's credit department from dishonest individuals, whose actions lead to financial losses.
- Enhance customer communication: Supporting customers at all stages allows for improving service and customer trust.
- Ensure transparency and control: Impossibility of falsification and fraud from the side of company employees, thanks to control over the application at all stages by different specialists.
- Enhance data security: Integration with external systems allows for increasing data security and protecting confidential information.
- Optimize personnel management: The ability to control personnel and instant communication with them allows for increasing the efficiency of the department.