**Project Planning Document for Data Breach Avoidance System**

**1. Introduction**

This Project Planning Document (PPD) outlines the scope, objectives, milestones, tasks, and resource allocation for the development and deployment of the Data Breach Avoidance System tailored for the MyBankCardsManager application.

**2. Project Scope**

**2.1 Objective**

To design and implement a proactive cybersecurity framework for the MyBankCardsManager application, leveraging an Adaptive Honeypot Behavior Algorithm, Intrusion Detection System, and User Entity Behavior Analytics.

**2.2 Deliverables**

* A fully functional Data Breach Avoidance System.
* User and System documentation.
* Testing and Quality Assurance reports.
* Maintenance and Support guidelines.

**3. Project Milestones**

1. **Requirement Analysis**
   * Completion Date: [Date]
   * Description: Gather and finalize requirements for the system.
2. **System Design**
   * Completion Date: [Date]
   * Description: Finalize the system's architecture and component design.
3. **Development Phase**
   * Completion Date: [Date]
   * Description: Actual coding and integration of system components.
4. **Testing Phase**
   * Completion Date: [Date]
   * Description: Ensure the system works as intended and is free of critical bugs.
5. **Deployment**
   * Completion Date: [Date]
   * Description: Deploy the system for real-world use.
6. **Post-Deployment Monitoring**
   * Completion Date: [Date]
   * Description: Monitor the system's performance and address any emerging issues.

**4. Tasks Breakdown**

**4.1 Requirement Analysis**

* Conduct stakeholder interviews.
* Document user and system requirements.
* Finalize system functionalities.

**4.2 System Design**

* Design the system architecture.
* Plan the database schema for both genuine and honeypot data.
* Draft initial system mockups and user interface designs.

**4.3 Development Phase**

* Set up the development environment.
* Develop the Adaptive Honeypot Behavior Algorithm component.
* Implement the Intrusion Detection System and User Entity Behavior Analytics components.
* Integrate all components with the BankCardManager application.
* Develop the frontend and backend of the application.

**4.4 Testing Phase**

* Unit Testing: Test individual components.
* Integration Testing: Test the combined components.
* System Testing: Test the complete system.
* User Acceptance Testing: Ensure the system meets user expectations.

**4.5 Deployment**

* Set up the production environment.
* Deploy the system.
* Conduct post-deployment testing.

**4.6 Post-Deployment Monitoring**

* Monitor system performance.
* Address any issues or bugs.
* Implement regular system updates.

**5. Resource Allocation**

**5.1 Team Structure**

* **Project Manager:** Oversees the entire project, ensures milestones are met.
* **System Designers:** Responsible for designing the system architecture.
* **Developers:** Implement the system based on the design.
* **QA Engineers:** Ensure the system is bug-free and meets quality standards.
* **Deployment Team:** Handles system deployment and post-deployment monitoring.

**6. Risks and Contingencies**

* **Risk:** Potential data breaches during system testing.
  + **Mitigation:** Ensure the testing environment is isolated and does not contain real user data.
* **Risk:** System performance issues post-deployment.
  + **Mitigation:** Continuous monitoring and timely system updates.

**7. Conclusion**

This Project Planning Document provides a roadmap for the successful development and deployment of the Data Breach Avoidance System. Strict adherence to this plan, combined with regular monitoring and updates, will ensure the project meets its objectives and delivers a robust and efficient system for the MyBankCardsManager application.