
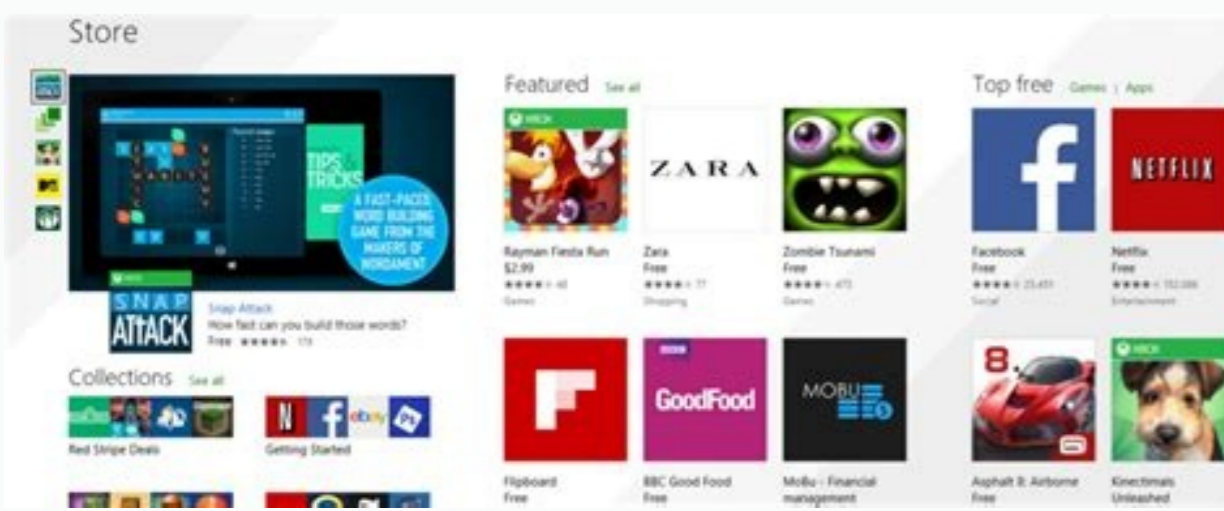
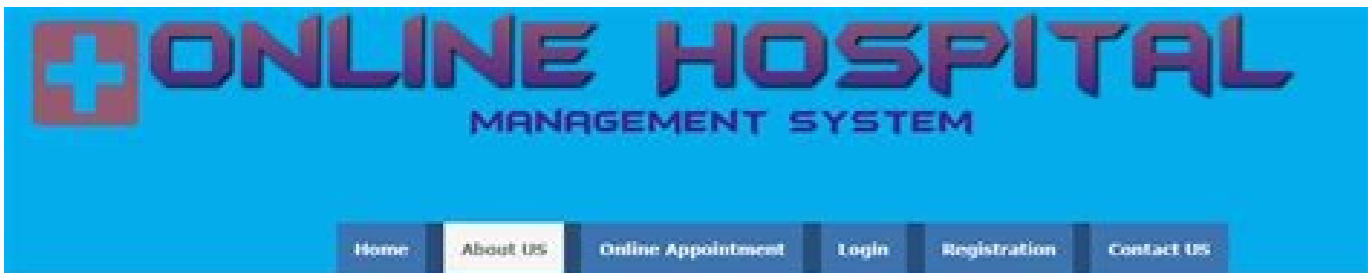
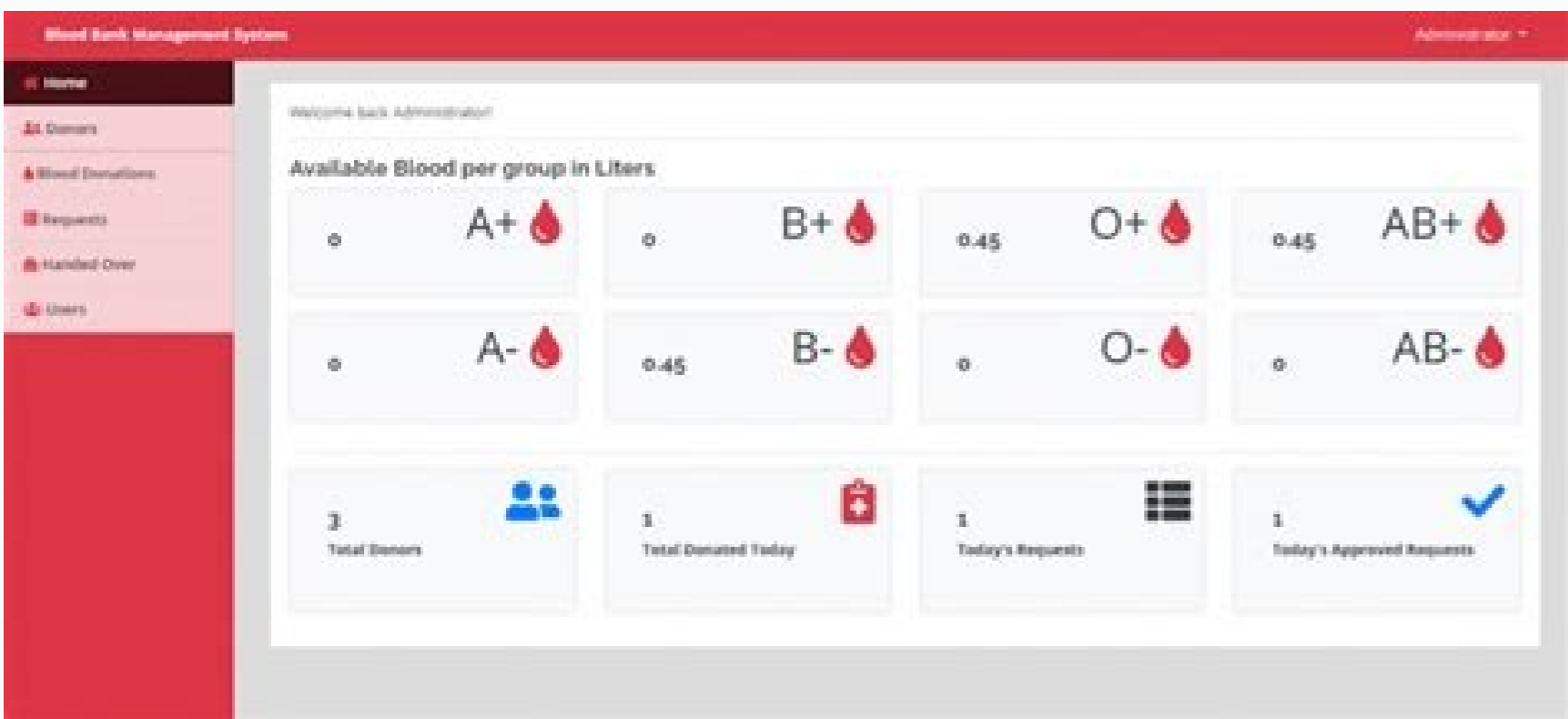


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C project bank management system.

Amid the unit testing stage, different modules in the created framework were tried independently. Theoretically, the risk of breaking into the security in common applications is high. • SQL can refresh records in a database. 5.2 Unit Testing Unit testing is performed on the smallest unit of programming plan – the module. • To avoid errors inherent in the manual works and hence make the output consistent and correct. The bank is the place where customers feel the sense of safety for their property. We will make it possible by using the prominent database techniques and object-oriented concepts. This progression is called Information Level Design and it is taken independently of any individual DBMS. Portions of the tests carried amid unit testing stage were: Pinnacle Load Test: The test decided if the framework could handle the volume of activities that occur when the framework is at the pinnacle of its processing. Smooth and efficient management affects the satisfaction of the customers and staff members, indirectly. Project Coordination Office Page 13 of 17 14. High transaction processing performance Project Coordination Office Page 10 of 17 11. 1. It provides the richest level of integration among presentation technologies, component technologies and data technologies ever seen on a Microsoft platform. OOAD Project Final Report CHAPTER FIVE SOFTWARE TESTING 5.1 Test Plan Strategy Testing is vital to the success of the system. • SQL is anything but difficult to learn. 2.1 Development Tools RESEARCH BACKEND/FRONTEND: • PROGRAMMING LANGUAGE C# • FRAMEWORK .NET • IDE Visual Studio 2012 DATABASE • DATABASE SQL 2.2 Description of Tools MICROSOFT VISUAL STUDIO 2012 Microsoft's .NET initiative is broad-based and very ambitious. A database configuration runs parallel with the framework outline. All the modules breezed through this test. System testing is concerned with the decision-logic, control stream, recovery procedures, capacity, and timing characteristics of the whole system. Capacity Test: It helped in checking whether the transaction data was legitimately being saved money on the plate or not. OOAD Project Final Report CHAPTER FIVE: SOFTWARE TESTING 5.1. Test Plan Strategy 5.2. Unit Testing 5.3. Integration Testing 5.4. System Testing CHAPTER SIX: SYSTEM USER GUIDE 6.1. List of Interaction Modules 6.2. Snapshots of Interaction Modules 6.3. Inputs and Expected Outputs REFERENCES Appendix: Project proposal (signed by supervisor) Project Coordination Office Page 5 of 17 6. Project Coordination Office Page 6 of 17 7. • SQL can recover information from a database. The association of the data in the database is meant to achieve the accompanying two noteworthy objectives. OOAD Project Final Report 1.3 Economical Feasibility Since the framework is created as a component of venture work, there is no manual cost to spend on the proposed framework. OOAD Project Final Report The Department of Computer Science National University of Computer & Emerging Sciences (FAST-NU) National University of Computer & Emerging Sciences (FAST-NU) Main Campus, Karachi Main Campus, Karachi December 2017 December 2017 National University of Computer & Emerging Sciences (FAST-NU) National University of Computer & Emerging Sciences (FAST-NU) HRM BANK MANAGEMENT SYSTEM HRM BANK MANAGEMENT SYSTEM Project Supervisor Project Supervisor Miss Rubab Manzar Miss Rubab Manzar Project Manager Project Manager Project Team Project Team Usama Abubakar 15k-2137 Usama Abubakar 15k-2137 Ibadullah Khan 15k-2122 Ibadullah Khan 15k-2122 Muhammad 15k-2231 Muhammad 15k-2231 Adeel Shah 15k-2174 Adeel Shah 15k-2174 Submission Date Submission Date 88th December 2017 December 2017 Supervisor: Mr. Majid Hussain Head of Department: Dr. Jawwad A. A few changes were made in the modules to satisfy this test prerequisite. In the second step, this information level outline is moved into a plan for the specific DBMS that will be utilized to execute the framework being referred to. A system is tested for online responses, the volume of transactions, stress, recovery from failure and usability. The framework gives many advantages that can't be measured as far as Money for e.g. ease of uses, more client reaction being more productive. 3.2 System Specifications Attached to an external file. It stores the data as tables making ideal utilization of the accessible stockpiling. This led us to think of a design system in such a way that we give possible advantages to the bank as well as the customer and other stakeholders. • To make the system complete menu-driven and hence user-friendly. The first release product based on .NET framework was Visual Studio 2002. The database configuration is a two-level process. • SQL can erase records from a database. For instance, an executive can prohibit utilization of a specific application so applicant's data can be connected, without affecting other application. Recovery Test: The test helped in checking the capacity of the framework to recover from disappointment. In addition, of course, it encourages management committee in taking some needed decision for future enhancement of the bank. Project Coordination Office Page 9 of 17 10. A good test is one that has a high probability of finding a yet undiscovered error. • To make the systems compatibility i.e. it should "fit in" in the total, integrated system. Transaction of money also is a part where the customer takes shelter of the bank. Elmasri Navathe 'Fundamentals of database systems' Microsoft ASP Tutorials. This progression is called Physical Level Design, concerned with the characteristics of the specific DBMS that will be utilized. 1.5 Project Objective The following goals were kept in mind while designing the new system: • To reduce the manual works required to be done in the existing system. 5.4 System Testing During system testing phase, all the sub-systems are gathered and a test is conducted to determine whether the whole system meets the user requirements. OOAD Project Final Report Visual Studio C# and SQL keeps up the preceding highlights with a high level of general framework performance. OOAD Project Final Report REFERENCES WEBSITES: www.sourceforge.net www.w3schools.com www.webreference.com BOOKS: Roger Pressman, Software Engineering. • To improve the management of permanent information of the hotel by keeping it in properly structured tables and to provide facilities to update this information as efficient as possible. • We can likewise bargain through the web by making pages and a banking site for web managing. • SQL can execute questions against a database. Unit testing additionally helped me in discovering regardless of whether the data was legitimately stored in the database or not. Testing is also carried out to see if the performance requirements have been met. OOAD Project Final Report CHAPTER THREE: REQUIREMENT ANALYSIS 3.0 Use Cases Attached to an external file. • To have increasingly customer fulfillment we will stress increasingly in our dealings. • We can build up and begin different Branches and available help communities for Account Holder's Queries. This is necessary so that even non-programmers could use the system effectively and the system could act as a catalyst in achieving the objective. 1.2 Literature Review Since banking has become an essential part of our daily life, there has been some advancement in the technological background of the software that has been used by several banks over the years. Numerous concurrent database users Visual Studio and SQL bolster a substantial number of concurrent users existing an assortment of database application working on similar data. Unit testing helps in detecting blunders in coding and logic that are contained inside the module. OOAD Project Final Report THE .NET FRAMEWORK .NET is a framework that covers all the layers s/w development above the operating system. Testing is a process of executing a program with the intent of finding an error. • SQL enables you to get to a database. For instance, in the data passage module, the specimen data was bolstered into this module to check whether every one of the approvals that are connected to input shapes is working appropriately or not. In this project, we did unit testing and system testing during the testing phase. e main substantial advantage gave by the proposed framework is that the paper work is lessened to the base and henceforth the decrease in cost caused by Stationary and its stockpiling. 4. Software testing reviews the specification, design, and coding of the system and helps in software quality assurance. Thus, the systematic test should be carried out that uncovers different types of error with a minimum amount of time and effort. • To design the system in such a way that reduces feature maintenance and enhancement times and efforts. • SQL remains for Structured Query Language. The vision of Microsoft .NET is globally distributed systems, using XML as universal glue to allow function running on different computers across an organization or across the world. OOAD Project Final Report CHAPTER ONE: CONTEXT AND PRELIMINARY INVESTIGATION 1.0 Project Selection THE HRM BANK MANAGEMENT SYSTEM is a desktop application for bankers. In the present scenarios, banks assume a significant part in handling the abundance of an association Database client does not endure moderate processing performance. The system provides functionalities to workers present at the bank to perform customer and bank related task efficiently and effectively. Testing is also a good indication of software reliability. The essential function of Sub-System testing is to check the operation of the interface between the modules in the sub-system. OOAD Project Final Report Document Information Category Information Customer NUCES-FAST Project Title HRM Bank Management System Document OOAD Project Final Report Document Version 1.0 Identifier HRM BANK Final Report Status Final Author(s) Ibadullah Khan 15k-2122 Approver(s) Miss Rubab Manzar, Mr. Majid Hussain Issue Date 8th December 2017 Definition of Terms, Acronyms, and Abbreviations Term Description ASP Active Server Pages RS Requirements Specifications ATM Automated Teller Machine VS Visual Studio SQL Sequential Query Language C# C Sharp IDE Integrated Development Environment Project Coordination Office Page 3 of 17 4. OOAD Project Final Report CHAPTER SIX: SYSTEM USER GUIDE Dashboard Figure 1 Click on required button to log in Figure 2 Manager Login Interface after clicking on Manager Options from Figure1 Project Coordination Office Page 14 of 17 15. Changes were made in the modules according to these current test outcomes'. BROAD AND DEEP PLATFORM FOR THE FUTURE: The .net framework encompasses a virtual machine that abstracts away much of the Windows API from development. It is a user-friendly and dynamic so that it can be used by any bank using the same functionalities. Project Coordination Office Page 8 of 17 9. In the bank, customers deposit and withdraw their money. Extensive database and space administration control Visual Studio and SQL together backings the extensive measure of the database. In the initial step, client necessities are assembled and a database is planned which will meet these necessities as clearly as could be expected under the circumstances. Unit testing gives weight on the modules independently of each other, to discover blunders. 3.1 Fully Dressed Attached to an external file. • SQL is an ANSI standard script. It includes .NET framework, which encompasses the languages and execution platform, plus extensive class libraries providing rich building functionality. Accordingly, changes were made and then the modules were tried once more, until the point that they were up to the expected standard. OOAD Project Final Report Figure 3 Manager Options After Login Figure 4 Cashier Login Panel after clicking cashier from dashboard in fig1 Figure 5 Cashier Options after Login Project Coordination Office Page 15 of 17 16. • To draw in Account Holder's we can offer different offers during celebrations months. 3. OOAD Project Final Report Procedure Test: This test helped in checking the specified working conditions, input estimates and expected outcomes Performance Test: The test checked the reaction time, execution time, and throughput time of the modules. The entire architecture has been created to make it easy to develop internet applications, as it is to develop for the desktop.VS.NET supports Windows 2003, Windows XP and all versions of Windows 2000, Programs created for .NET can also run under Windows NT, Windows 98, and Windows Me, thoughVS.NET doesn't run on the system. Shamsi _____ The Department of Computer ScienceThe Department of Computer Science National University of Computer & Emerging Sciences (FAST-NU) National University of Computer & Emerging Sciences (FAST-NU) Main Campus, Karachi Main Campus, Karachi Project Coordination Office Page 2 of 17 3. • We can likewise bargain in different sorts of Banking Transactions. A program unit is typically sufficiently little for the software engineer to test it in extraordinary detail. OOAD Project Final Report Table of Contents CHAPTER ONE: CONTEXT AND PRELIMINARY INVESTIGATION 1.0 Project Selection 1.1 Project Background 1.2 Literature Review 1.3 Economic Feasibility 1.4 Project Scope 1.5 Project Objectives CHAPTER TWO: RESEARCH 2.0 Primary Research 2.1 Academic Research for Development Tools 2.2 Description of Tools CHAPTER THREE: REQUIREMENT ANALYSIS 3.0 User Requirements/ Use Cases 3.1 Use-Case Diagrams 3.2 System Specifications CHAPTER FOUR: DESIGN 4.0 Deliverables of Process Modeling 4.0.1 Context Diagram 4.0.2 Sequence Diagram 4.0.3 State Chart Diagram 4.1 Conceptual Data Modeling 4.1.1 Entity Relationship Diagram 4.2 Database Design 4.3 Description of the software deliverable Project Coordination Office Page 4 of 17 5. • Data Integrity • Data Independence Project Coordination Office Page 11 of 17 12. Additionally, every one of the assets is now accessible, it gives a sign of the framework is monetarily feasible for development. Unit testing has the objective of discovering mistakes in the individual modules of the system. 5.3 Integration Testing Integration testing is two sorts - Bottom-Up integration and Top-Down Integration. Our idea is to remove all these flaws and design an unbreakable system. For this system, Bottom-Up Integration Testing was carried out. Controlled availability SQL can selectively control the availability of data, at the database level and sub-database level. OOAD Project Final Report CHAPTER TWO: RESEARCH 2.0 Primary Research We went to some of the leading banks in our city and ask them about the software they use. To make efficient utilization of costly hardware devices, it full control of space use. Its environment supports multiple languages. In like manner, this testing technique was connected to the modification, cancellation, search, pay slip age and report modules. Moreover, we ask them about the common issues they face in their work. 1.4 Project Scope This undertaking can be taken care of in future by doing different adjustments like: • We can go promote Online Banking. 1.1 Project Background This project will make the workload easier for the workers and customer of the bank. Bottom-up integration consists of a Unit Testing, trailed by the Sub-System Testing, and testing of the whole system. Project Coordination Office Page 7 of 17 8. Lynn Beighley, Head First SQL 2. • SQL can embed new records in a database. Testing is carried out at various stages. Database Design A database is a sorted out mechanism that has the capability of putting away data through which a client can recover put away data in an effective and efficient way. Project Coordination Office Page 17 of 17 The SQL SQL is a standard programming language for getting to and controlling databases. Besides the core .NET framework, the .NET initiative includes protocols (such as Simple Object Access Protocol-SOAP) to provide a new level of s/w integration over the Internet via standard net services. Bottom-up Integration is the customary technique used to coordinate the components of a software system into a functioning entirety. The unit testing helped in discovering which module of the framework isn't working as wanted. Moreover, it can be used on an ATM machine by the customer themselves to withdraw money or to see their account details. This is because the application is connected to the single database, so there is no need to transfer or make multiple back-ups of the data. It focuses on finding operational flaws in the system so that the software becomes error-free and prevents failure. OOAD Project Final Report Figure 6 ATM LOGIN Figure 7 ATM Interface After Login Figure 8 Customer login Project Coordination Office Page 16 of 17. National University of Computer & Emerging Sciences (FAST-NU) National University of Computer & Emerging Sciences (FAST-NU) HRM BANK MANAGEMENT SYSTEM HRM BANK MANAGEMENT SYSTEM Miss Rubab Manzar Miss Rubab Manzar Project Team Project Team Usama Abubakar 15k-2137 Usama Abubakar 15k-2137 Ibadullah Khan 15k-2122 Ibadullah Khan 15k-2122 Adeel Shah 15k-2174 Adeel Shah 15k-2174 Submission Date 88th December 2017 December 2017 Submitted in partial fulfillment of the requirements for the degree of Bachelor of Science Bachelor of Science 2. Up till now, banks try to secure the data by using the old methods of securing locks that have to be changed somehow in order to guarantee a customer's privacy and shares. According to our research, almost all software used by banks these days has flaws that may lead to the potential threat by the hackers. Finally, we also asked about the satisfaction of the currently used software and we mostly got negative comments. CHAPTER FOUR: DESIGN System Design The framework has been decided to create on C# utilizing its different products like .NET and back-end SQL SQL has been chosen since the framework has the accompanying necessity and it categorized all: 1. The data is the motivation behind any database and must be protected. Now to keep the belief and trust of customers, there is the positive need for management of the bank, which can handle all this with comfort and ease. Project Coordination Office Page 12 of 17 13.

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