

Final Project Report
School Of Professional Advancement
University of Management And Technology



Muhammad Faizan Haq
ID# 101927-001 (MCS)

Central Authority To Regulate Data (CARD)



Muhammad Faizan Haq
ID# 101927-001 (MCS)





Submitted in 04 October, 2013 in partial fulfillment of the conditions of the
award of the degree MCS
School of Professional Advancement
University of Management and Technology, Lahore

I hereby declare that this project is all my own work
Muhammad Faizan Haq (101927-001)

Signature _____

Date 04/10/2013

(Project Advisor)

(Head of Project Evaluating Committee)



CONTENTS

Document information	5
<u>1-Requirement Gathering</u>	
1.1-Motivation for the project	7
1.2-Scope	7
1.3-Objectives	7
1.4-Problems being faced without this system	8
<u>2-Analyzing and Business Plan</u>	
2.1-Introduction to CARD	10
2.2. Business Strategy	11
2.3-Functional Requirement	12
2.4-Non functional Requirements	16
2.5-Assumptions Dependencies	18
<u>3-Designing</u>	
3.1-Software Structure Design	19
3.2-Use cases	21
3.3-Flow chart	33
3.4-Data Flow Diagram	37
3.4-Database Diagram	41
3.5-ERD	49
<u>4-Testing</u>	
4.1-Test Cases	51
4.2- Testing GUIs	54
<u>5-Implementation</u>	
5.1-System Requirement	61
5.2-Software Manual with pictures	62
<u>6-Project Tools</u>	67



Document Information

Category	Information
Client	School of Professional Advancement(MCS)
Project	CARD
Purpose	Degree requirement of MCS
Document	Final project report
Document Version	1.0
Status	Draft
Author	Muhammad Faizan Haq (ID#101927-001)
Approver	Mr. Khurram Khan (Head of MCS department)
Advisor	Ms. Aafia Mufti (Lecturer SST, UMT)
Issue Date	04/10/2013

Definition of Terms, Acronyms and Abbreviations

This provides all of the terms, acronyms, and abbreviations used in this project.

Term	Description
CARD	Central Authority to regulate data
Detailed Record	The section of software in which the complete record of one person based on its NIN can be get.
Quick view	The section of software In which the overall situation of country can be shown
NIN	National identity number
Most recent	Most recent means the information for current year only
Complete	Means the information from beginning of time
Select one year	It is for tax, that select one year to get tax info.
Select range	Means the range of years like 2000 to 20005



REQUIREMENT GATHERING



Motivation For the Project

The author selected this project, because it is the need of the time. Currently NADRA is working as the central information system of Pakistan, and it only contains the basic information of Pakistan.. And don't take control of handling more information of people

And it seems that there are many problems in Pakistan , that are only because of mismanagement, lack of planning, lack of proper facts and figures, surveys, records, lack of check and balance etc.

So it has become the need of the time to develop a system that is sound enough to undertake the functionalities that can minimize the above lapses in the system

Scope

This system will be implemented at national level, in each city and each province. It will be directly under to the federal Government. of Pakistan and there may be need to make amendments in law to implement this system.

And all the departments and public would have to co-operate with this system.

Objectives

In this section the main objectives of this system will be discussed.

We see that there are at many times when we need some person's data. Sometimes we need its basic data like its name, age, family information etc.

Sometimes we want to trace the person we require its identity information.

Sometimes we need its address, educational, criminal, financial etc. records.

The Government or any other Government level agencies need this information to implement law and for planning or other purposes.

So this is very basic level system, it is needed a lot. But unfortunately till now Pakistan don't have this type of system that can take over this type of matters.

However, a very small scale system NADRA is active but it does not fulfill above discussed matters.

So it is the need of the time to develop a system that fulfill above requirements



Problems being faced without this system

In this section the main problems will be discussed, that were facing by people and Government of Pakistan without this system

There is no any complete record of person like its

- Educational information
- Financial information
- Address information
- Tax information
- Family information
- Identity information
- Criminal information etc.

So if Government want to trace a person or it need any other information about him, it is so difficult without this system

Without this system, Government don't have any exact facts and figures. Or it may have to conduct additional surveys to collect information which cost a huge overhead and up to date information is still impossible, without this system

There is no any standard in education of this country. Like there are so many differences in syllabus in curriculum, difference in merit etc. there is many question marks in degree awarding bodies and its acceptance.

So without having a standard and central body, students and institutes suffers a lot.

And when elections are conducted, there is a huge mismanagement like

It is so difficult to find out who is criminal, tax theft, bank defaulter etc. in candidates .

Voter lists are not transparent too. And there is lot of mismanagement in allotting constituencies.

Without this system, it is so difficult for Government to figure out for the tax thefts, difficult to recover loans from banks, no proper record of income of a person so, as a result Government have to face loss of money i.e. tax or loans etc. and without having proper record, it face difficulties in policy making.

Without having a central system, there is no mechanism for the different departments to share information and share resources.



Analysis And Business Plan



Introduction to CARD

It is an Authority to undertake the function of handling the data. The objective is to modernizing the country's Governance. It will serve as a centralized data repository at national level where data in form of particulars of citizens of Pakistan will be maintained and periodically updated. The data will be used as an important input in future planning of social sector projects and related areas, documentation of the economy and for creation of a comprehensive citizen database

This is not just software but a system that facilitates the country's governance by handling the data of all the individuals of Pakistan.

In this system, there will be the complete records of all citizens. The record will be like, their personal information, their criminal, social, financial etc. information.

This system is directly under to the Government of Pakistan and facilitates many departments and institutions

This system provides exact, up-to-date facts and figures like,

The complete information of every person, like,

- Personal
- Educational
- Criminal
- Financial
- Current Education rate in the country.
- Birth and death rates.
- Criminal activities.
- Exact voter lists.
- Bank defaulter's record.
- The system to scrutinize any considered person
- The system to evaluate country's economy
- The system to minimize many social evils like
- Fake degrees
- Tax theft
- Bank defaults
- Record of Criminals
- And much more information like this...



Business Strategy

This system would have to implement in all over the country equally. It would be directly under to the Federal Government of Pakistan. All the institutions, departments, ministries, Agencies will co-operate with it.

And to Start this system, to implement this system, there will be data collection centers at union council level or it can be according to the management policies, and people would go there and enter their basic records like name, address etc. in the system

As there is HEC, there should be a common Educational Commission, working in the country and all the schools, college or universities should be under this commission and all other bodies like Lahore Board or Gujranwala Board or Punjab Text Book Board or even Higher Education Commission will be dissolved. This educational commission will make policies regarding education, make standard curriculum that all the students will have to follow. And there will be standard and central body to take exam, evaluate students and issue degrees etc. And this educational commission will provide all the records to the CARD

In police stations and the proceedings of courts, new computerized system will be introduced. All the FIRs registered, will be entered in this system. And their system is connected to the CARD. So that we will have the up to date record of crimes and court cases and we can easily review the policies, make internal audits and criminal will not be dominate anymore.

There will be a new commission, Financial Commission. It will have the financial records of all citizens. Persons will be divided into many groups like Salaried Person, Businessmen or low level income etc. A person got a job, its employer should report to this commission, A person starts its business, if its worth is equals to specified amount, then he should report to this commission or even he want to extend its business he will have to take approval from this commission, so the financial activities of persons can be monitored and financial policies can be purified, that results in better economic situation. This financial commission will report to the CARD

All the commercial banks will be under to the State Bank of Pakistan, it will make polices etc. and all the banks has to provide complete records of its account holders, and then State Bank will provide all the data to the CARD

Tax department will make tax process and reports to the CARD, so that we can have all the tax records of a person on a hand so we can minimize the tax thefts

