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1. Executive summary of the project.

The ceramic industry in Bangladesh dates back to 1962. People Ceramic Industries Ltd (PCI) pioneered the manufacture of porcelain tableware in Bangladesh. There are approximately 40 ceramic manufacturers operating in this industry producing tableware, sanitary ware and tiles. Shinepukur, Monno, Bengal Fine, Standard, Peoples and National Ceramic are considered as major players in ceramic tableware market. RAK, Fu Wang, China-Bangla, FARR, Modhumoti, ATI, Great Wall, Dhaka-Sanghai and Mir are major manufacturers of tiles and sanitary. The total capacity of ceramic tableware manufacturing companies is nearly 40,000 tons a year as of 2012, of which an average of 48 percent is exported and the remaining 52 percent is used in the domestic market. The Export Promotion Bureau (EPB) data showed that in the July-May period in FY 2012-13, the export earnings from ceramic goods amounted to almost $34.42 million with a 10 percent growth. Bangladesh exports ceramic products to about 50 countries including the US, the UK, Italy, Germany, France, Spain, Norway, Sweden, Turkey, Poland, Australia, New Zealand, Canada etc.

Local ceramic-ware manufacturing industry is expecting a steady growth with a US $100 million return from exports by 2015.

In this present context of Bangladesh, market is expanding enormously. Foreign delegates frequently visit the market for exploring & purchasing our products. They go round the market to choose the designs, materials etc. of the products & to have conferences with the relevant companies. At present times, due to the political unrest, the business has become quite unstable and the foreign delegates cannot visit frequently in this situation. Moreover, in the modern world, people are more conscious about time. Almost all industries are now dependent on web based communication. So it is has become a necessity to develop a web platform that can represent our country’s ceramic market in front of the world.

2. Mission & Vision statements of the project:

Technology can remove the distance and make the world smaller. Almost all kinds of markets are now in the virtual world. But unfortunately, our ceramic industries do not have such enrich and informative websites to represent our country’s market. So a single web platform is needed to combine all the ceramic companies & to make it easier for the foreign buyers to explore our market more efficiently. With this point of view, we have decided to create such a website that reflects the whole ceramic market of Bangladesh. Foreign delegates can have an overview of the companies, can communicate with the companies, order products online and can even upload designs in this website. This will enable our market to be represented in front of the world with a great outlook.

3. Requirements analysis:

**Hardware Requirements:**

1. CPU
2. Monitor
3. Mouse
4. Keyboard
5. Printer

**Software Requirements:**

1. Microsoft Windows

2. PHP & MYSQL server

**Communications Requirements:**

1. Web browsers

2. Lan connection

**Security and Reliability Requirements:**

**Security:**

The Information should be Secure; there should not be any kind of malfunctioning. All information about the various companies, foreign delegates and local dealers are to be kept safeguarded.

**Reliability:**

System should be reliable. It should keep secure all the information regarding to the buying/ selling of the products. It should work effectively in tremendous rush.

**Flexibility:**

System is working easily on the Intranet with the username and password of the user. System should be quite flexible to install and maintain.

**Efficiency:**

System should be efficient enough to meet all kinds of requirements as required by the admin and user. The system should not hang or lose its efficiency in any kind of worse conditions. It should provide the correct output in all manners.

**User Friendliness:**

System should be user friendly, so that any user can access the system. The foreign buyers should be able to navigate through the pages and find their required goals. There must be user friendly options to visit the website frequently.

**Organizational Requirements:**

**Implementation Requirements:**

It requires good skill for implementation of project. Entire coding will be done using PHP and MYSQL Server 2008. Soft copy for the documentation is provided in Microsoft Word Format. Implementation does not require any more software support.

**Standards Requirements:**

Industry standards will be followed by us in any negotiation or deal related to the product software. Coding, Documentation and final product delivery will be followed by the standards

**External Requirements:**

**Legislative Requirements:**

1) Privacy Requirements-

Privacy of any particular things and strategy will be served based on prior negotiation and it should be cleared purposed for that requirement.

2) Safety Requirements-

Safety will be provided based on the requirement of the members and necessary critical points.

**User Requirements:**

The User requirements for the new system are to make the system more famous amongst the foreign countries and save time.

1. Time can be saved in finding different products, choosing their design and ordering the ceramics with just a few clicks on the mouse.

2. A system that can notify the home companies as soon as a foreign dealer is interested to communicate with the home company. This will help improve the market.

3. It should prove cost effective as compared to the current system.

4. Feasibilities of Ceramics Network:

Economical:

There are good economical feasibilities of our project ‘Ceramics Network’. Almost all the data required are in the web of individual companies. So, we need not to visit them personally rather we need to correlate the data in a single platform.

Technical:

Like afore mentioned economical feasibilities, the softwares required are available in the internet. Therefore, we can say that our project is also technically feasible.

Operational:

This will be very easy to operate like maintaining an email account. So the people using this website do not face any difficulties with running the website.

**Benefits of Ceramics Network:**

The implications of economic benefits of Ceramics Network are immense. Firstly, by providing the foreign buyers a chance to choose among the companies; we are ensuring that the order remains in our country. Secondly, while the foreign delegates are visiting, they will have the chance to visit our historical and ecological places of our country; which will create more opportunities in the tourism sector.

**Source of Information:**

The primary source of information is available from the ceramic companies.

The secondary source of information is available on the web.

5. Project Platforms and tools:

**Platforms:**

* PHP
* HTML 5
* CSS
* MYSQL

**Reason Use PHP &MySQL:**

Using PHP scripting and MySQL™ database enables programmers to create applications that will run on just about any computer, regardless of operating system. PHP has thousands of programming functions to facilitate almost any task.

If the computer can run web server software, the PHP / MySQL™ application is portable across operating systems and environments ... PC, Mac, Linux, Unix, Windows, Internet, Intranet, etc. This means I can develop a project on my Windows PC, and send it to my friend in Slovakia who can run it on his Linux box.

PHP / MySQL™ is most often used to create dynamic web sites. On this web site, one script drives about 60 pages of content. Additional scripts are used here to process form data ... but that too could be done through the main script using included files.

PHP / MySQL™ projects include forums or communities, organizers, project management tools, calendars, shopping carts, mailing lists, and all sorts of useful applications. Source code for many open source projects is free, while advanced projects often require a registration fee for commercial use.

Data can be exported from MySQL™ for use in spreadsheets or databases on your PC. Similarly, data residing in existing PC spreadsheets and databases can be imported to an online database. The portability of data opens up all sorts of uses, especially for workgroups and for those who need to access data from both home and work.

PHP is also very fast. Facebook, among other very large websites, uses PHP. Look at the trouble Twitter had a year or two ago. They've been migrating their system from Ruby/Rails to other languages so that their site can keep up with the load. Ruby is a beautiful language, but that beauty comes at a cost. It cannot match PHP's efficiency.

6. Activities of the project:

* Buyers can search from a variety of options.
* They can choose from the given designs of various companies and can also provide their own designs.
* Buyers can submit their requirements.
* The companies will offer their prices according to those requirements.
* The companies can feature their latest designs.
* Local dealers can also be able to purchase products via this website from industries.
* The basic information of the registered Ceramics show-rooms of Bangladesh will be displayed.
* So that buyers from country/outside can contact them through those contacts.

7. Name of Main Process, Sub Process, Entities, DB:

Main Process: Ceramics Management System,

Sub Process: Production,

Orders,

New Design,

Contact.

Entity Names: Companies,

International Buyers,

Local dealers. DB: Companies, International Buyers, Local Dealers, Products, Orders, Designs.

8. Context Level Diagram:



9. Level -0 Diagram:



10. Level-1 Diagram:



**Level-1 Diagram:**

****

11. Attributes & Tables:

|  |
| --- |
| International buyers |
| IB\_ID |
| IB\_Name |
| Email |
| Password |
| Country |
| Buyer\_Company |

|  |
| --- |
| Local Dealer |
| LD\_ID |
| LD\_Name |
| Email |
| Password |
| Outlet Name |

|  |
| --- |
| Companies |
| Company Name |
| Estd. |
| Business History |
| Year |

|  |
| --- |
| Company Products |
| Product ID |
| Company Name |
| Product Viewers |
| Price |
| Image |
| Product Status |

|  |
| --- |
| Provide |
| Product ID |
| Company Name |
| Provide date |

|  |
| --- |
| IB Deals Com.Prod |
| Deal number |
| IB ID |
| Product ID |
| Deal Date |

|  |
| --- |
| LD Supply Com Prod |
| Supply Number |
| LD ID |
| Product ID |
| Deal Date |

|  |
| --- |
| LD Pay Company |
| LD ID |
| Supply Number |
| Company Name |
| Payment Amount |
| Payment Date |

|  |
| --- |
| IB Order Custom Design |
| Customer Order ID |
| IB ID |
| Image |
| Detail |
| Similar Product ID |
| Date |

|  |
| --- |
| Offer |
| Customer Order ID |
| IB ID |
| Company Name |
| Price |

|  |
| --- |
| Review Meetings |
| IB ID |
| Company Name |
| Meeting Date |
| Time |
| Place |

12. Relation:

* Customer Offer,
* Deal,
* Supply,
* Pay,
* Provide,
* Order Custom Design,
* Review Meetings.



13. ERD:

14. Normalization:

|  |
| --- |
| Product ID |
| Company name |

|  |
| --- |
| Company Products |
| Product ID |
| Company Name |
| Product Viewers |
| Price |
| Image |
| Product Status |

|  |
| --- |
| Product ID |
| Product Viewers |
| Price |
| Image |
| Product Status |

15. Testing result of project:

We have tried to reach all the goals of our project within this short period of time.

We have run the project and seen that it works successfully.

16. Estimated cost for the real world for this project:

|  |  |
| --- | --- |
| **Expense Sector** | **Expense** |
| **Project** | 20,000 |
| **Transportation Cost** | 3000 |
| **Hardware cost** | 7000 |
| **Internet** | 4000 |
| **Others** | 1000 |
| **Total** | **35,000** |

17. Opportunities of Developments

* This project can be implemented in ceramics markets all over the world. Now that we are making this project based on only the ceramics market of Bangladesh, in future we can think about bringing the whole world’s ceramic market under one platform so that it becomes much easier for the competitive market to run the race and also establish good relation amongst countries.
* This project can be developed as a mobile app for easy access for retailers or casual buyers. We can make android application, windows phone application so that people of the modern world can use this software more easily.

18. Benchmarking –

All of our group members have tried to contribute equally to establish this as a standard project. Nevertheless, we have done the benchmarking as asked-

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19. References

# Bibliography:

System Analysis and Design- Kendall and Kendall

Software Engineering- Roger Pressman