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Introduction

The thirst for learning, upgrading technical skills and applying the concepts in real life environment at a fast pace is what the industry demands from IT professionals today. However busy work schedules, far-flung locations, unavailability of convenient time-slots pose as major barriers when it comes to applying the concepts into realism. And hence the need to look out for alternative means of implementation in the form of ladder approach.

The above truly pose as constraints especially for our students too! With their busy schedules, it is indeed difficult for our students to keep up with the genuine and constant need for integrated application which can be seen live especially so in the field of IT education where technology can change on the spur of a moment. *Well, technology does come to our rescue at such times!!*

Keeping the above in mind and in tune with our constant endeavour to use Technology in our training model, we at Aptech have thought of revolutionizing the way our students learn and implement the concepts using tools themselves by providing a *live and synchronous eProject learning environment!*

So what is this eProject?

eProject is a step-by-step learning environment that closely simulates the classroom and Lab based learning environment into actual implementation. It is a project implementation at your fingertips!! An electronic, live juncture on the machine that allows you to

- Practice step by step i.e. ladder approach.
- Build a larger more robust application.
- Usage of certain utilities in applications designed by user.
- Single program to unified code leading to a complete application.
- Learn implementation of concepts in a phased manner.
- Enhance skills and add value.
- Work on real life projects.
- Give a real life scenario and help to create applications more complicated and useful.
- Mentoring through email support.

The students at the centre are expected to complete this eProject and send complete project along with the documentation to eProjects Team

Looking forward to a positive response from your end!!

Objectives of the project

The Objective of this program is to give a sample project to work on real life projects. These applications help you build a larger more robust application.

The objective is not to teach you JSON/JavaScript/Dreamweaver/HTML5 but to provide you with a real life scenario and help you create basic applications using the tools.

You can revise the chapters before you start with the project.

This project is meant for students who have completed the module of **HTML5**. These programs should be done in the Lab sessions with assistance of the faculty if required.

It is very essential that a student has a clear understanding of the subject. Students should go through the project and solve the assignments as per requirements given.

Kindly get back to eProjects Team in case of any doubts regarding the application or its objectives.

Problem Statement

Rock Paradise is the premier online retailer for all things crystals and gemstones. Our extensive collection includes unique stone varieties from all over the world, and we're always on the hunt for the highest-quality products for our customers!

Whether you're looking to buy crystals for your collection or to enhance your spiritual practice with healing stones, we have something for everyone to enjoy. Explore our online crystal shop and enjoy the best the gemstone world has to offer!

All our crystals at Pure Lightness are handpicked by the wonderful people we work with, & ethically sourced around the globe. We love our planet and because of this we make it a point to support companies and individuals who believe in working with the Earth and the communities in which they all live.

At Rock Paradise, we're dedicated to bringing you exciting new tumbled gemstones, crystals, clusters, rough and raw stones, towers, spheres, and more!

Welcome to Rock Paradise, your source for Natural stone products.

You are supposed to create a Single-Page-Application and responsive Website for them with the below mentioned requirement specifications.

The website is to be developed for the Windows Platform using HTML5, JSON, Angular JS, JavaScript and Geolocation. The site should work well in all leading browsers including Chrome, IE, Firefox etc.

Functional Requirement Specification:

The portal will be designed as a Single-Page-Application and responsive Website with a set of pages and menus that represent choice of activities to be performed. The pages, menus, and other visual elements must be designed in a visually appealing manner with attractive fonts, colors, and animations.

All of these should also be laid out in a responsive manner

The Web site is to be created based on the following requirements.

- 1) The Top of the Page should be presented with a suitable logo and images of diamonds and other crystals.
- 2) Categories such as Diamond, Quartz, Ruby, Sapphire, Emerald etc with listing of various jewelry items consisting these crystals.

- 3) Top Selling Items should be listed in a separate category.
- 4) Filters based on brand, colour, size etc. should be provided.
- 5) Brands like "Swarovski", "Tiffany", "Pandora" should be provided in filter.
- 6) Gallery should be added for viewing different images.
- 7) User Rating must be allowed to enter and viewer should have option to filter on Ratings.
- 8) Site map, Gallery, about us, FQA, Contact us link must be added.
- 9) About Us and Contact Us: This menu option should display Email id, address, and contact number.
- 10) Section for various offers in the store should be provided with listing of offers with details.
- 11) Color combination must be uniform throughout the project.
- 12) Navigation must be smooth.

Over and above this, the portal should implement the following functionalities:

- Display a continuous scrolling ticker at the bottom of the page with current date, time, and location (hint: Use geolocation features of HTML5).
- Display a visitor count at the top right corner of the page beside a logo image.
- The menu options should change color on hover and also after clicking.
- Fade in and fade out options can be used for the menus.

Hardware/ Software Requirements

Hardware

- Intel Core i3/i5 Processor or higher
- 8 GB RAM or above
- Color SVGA
- 500 GB Hard Disk space
- Mouse
- Keyboard

Software

Technologies to be used:

- Frontend: HTML5, CSS, Bootstrap, JavaScript, jQuery, AngularJS, XML
- Data Store: JSON files or TXT files

Other Requirements:

- Operating Portal: Windows
- Browsers: Edge, Chrome, Mozilla Firefox, Safari