

Project Charter

Version 1

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Injectronics

**Injectronics**

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# 1.0 Introduction

This proposal is in response to a request from Injectronics Training. The request was placed to Adam Fainman, over the phone and through email, from John Vandenberg, the owner of Injectronics. Injectronics is looking to update their web site to a rich web-application, allowing students to: purchase, view, and conduct testing on courses in the automotive industry. We have developed the following Project Proposal with regards to the request from John Vandenberg.

## 1.1 Roles

###### Sponsors

Project Sponsor: John Vandenberg, Injectronics Training

###### Team Members

Lead Business Analyst/Designer: Adam Fainman

Lead Designer/Programmer: Denny Scott

Lead Programmer: Travis Scott

## 1.2 User Environment

Injectronics has established a reputation for high-impact, high quality technician training. Injectronics was established in 1986 by John Vandenberg. Since its beginning, it has offered a wide variety of continuing technical education programs for technicians needing skills upgrading. During this time, there has been a radical shift in how we share and access information. Central to this shift is the World Wide Web.

We want to harness the functionality of the web by introducing a new web application for Injectronics. This application will allow new and current students to access educational material online in a simple yet intuitive manner. Furthermore, we will redesign Injectronics online presence by updating the look and feel of their current website, and introduce social media features. By having a user environment that is both efficient and simple to use, we allow Injectronics to further expand their business over the web into an untapped market.

# 2.0 Current System

## 2.1 Description

Currently, Injectronics website has a dated and complicated layout. Some of the features are listed but do not work. This incompleteness can easily turn away customers right away. Furthermore, without the ability to truly train students online, there is a wide market that is left untapped.

## 2.2 Functions of the Current System

* Information About Injectronics
* Injectronics Contact Information
* Classroom Training Information
* Available Courses
* Member Login

## 2.3 Shortcoming of the Current System

* Online Training
* Testing/Quiz System
* Dated Look and Feel
* Some Features are Unusable.
* No Social Media
* Lacking a Central Dashboard.

# 3.0 Proposed System

## 3.1 Description

To overcome the shortcomings of the current system, our proposed application will handle all the shortcomings of the previous system, and bring Injectronics’ web presence to the cutting-edge of web technology. The proposed system will be a real-time web application that users can individually log into, and access personal information. This system would be hosted in the Amazon Cloud, along with the data, allowing users to access the information from anywhere, while being secure, safe, and fast.

The new Injectronics web application will be split into three distinct areas. A welcome “static” web site, introducing Injectronics, its product, and other related information. This part of the website will look and feel up-to-date, clean and intuitive, and yet simple to use.

The secondary area of the application will be a “users” area. This is where users who have signed up to Injectronics can log in to. This will include:

* a dashboard for personal information
* a list of offered online courses
* an area to watch purchased courses
* a testing/quizzing system
* forums for help on errors relating to testing and functionality
* Admin area, for adding new courses and analytics.

Since the web application is built using cutting-edge, real-time technology, we have the ability to build further real-time systems in the future. This could lend itself to things like a real-time workshop.

The final area of the new web application is a blog. This will be housed in an area where both logged in/out users can view. The blog will be developed to interact with social media and can be managed by John Vandenberg or our team.

The application will be built with a responsive design, allowing for seamless transition to any screen resolution, providing clients the same functionality on any device.

The main goal while developing this system is to create a web application that is usable by anyone from all backgrounds in computing. The interface should be both simple and intuitive enough to handle all tasks exactly as the user expects. Furthermore, the application will be built with extensions in mind. The Injectronics web application could be used for more functions in the future, and we want to allow Injectronics to make these changes with little to no issues.

## 3.2 Objectives

Listed below are the objectives of our Injectronics Web App:

* Grant customers access to Injectronics from anywhere, anytime.
* An online training system, including course selection, training, and testing. This will also include a student dashboard allowing students to view completed courses in relation to their desired certification.
* Create a real time interface to bring Injectronics to the cutting-edge of web technology.
* A responsive, intuitive, and simple user interface, allowing users of all computer backgrounds to use the system.
* System must be private, secure, and confidential.
* Provide easy scalability. We want Injectronics business to grow, and as it does, so will the web application.
* Allow it so anyone can access the web app from anywhere on any device including: desktop, tablet, mobile

## 3.3 Benefits

Concloud will provide the following benefits:

* Customer training and testing.
* A stronger online presence, with access to a larger volume of customers.
* Cutting-edge technology with both a new web portal, and a related mobile app.
* An extendible system, which can have new features added in the future.
* A simple, intuitive interface will ensure the user uses the system correctly, while enjoying it.

# 4.0 Development

## 4.1 Prototype Schedule

As listed in the Project Schedule, the Prototypes will be released bi-weekly leading up to the January launch date (once a week at the very beginning). The prototypes are a chance for the sponsor to review the applications development and instruct us on the direction of future features.

## 4.2 Feature Hours

|  |  |  |
| --- | --- | --- |
| Feature | Description | Estimated Hours |
| Login System | User Roles and login functionality. | 30 |
| Core Modules | Base Functionality of web application. Includes base courses, routing, security, publications, subscriptions, navigation, and design. | 40 |
| Splash Page | Home Page User arrives at when not logged in. | 15 |
| About Page | Information about Injectronics | 8 |
| Contact Page | Contact Information for Injectronics | 5 |
| Dashboard (Initial) | Display Update and Personal Information to the User. Does not yet display full course information. | 20 |
| Notification System | Notify Users about Updates, Changes, and Data they’ve subscribed to. | 20 |
| Admin Mock-up | Display the Look and Feel of Admin Page. | 5 |
| Pay Pal Connection | Create Pay Pal Account and Connect to Pages | 5 |
| Blog System | Create both the Backend of the Blog System, the Display Page, any Commenting System, connection to Social Media, and the Input/Post Page. | 20 |
| Advanced Dashboard | Information about the courses taken, time left on purchases, information on pricing plans, progress towards a certification. | 40 |
| Admin Panel | Allow for the updating, insertion and deletion of users. Display base analytical information on web app. | 25 |
| Course List | Create Course Listing System, and Display all courses Available. | 20 |
| Purchase Course System | Allows the User to Purchase a Course through PayPal. The Course is then given to the customer for a set amount of time. | 15 |
| Pricing Plan System | Allows for the creation and removal of prices in the system. The two current plans is the single course, and year purchase. | 15 |
| Testing System | Allows for the creation and Testing of Course Material in relation to a selected Course. | 30 |
| Course Viewing System | The system and look/feel of the Course Viewing page. Allows (but does not perform) for the dynamic creation of these pages. | 25 |
| U.I. Improvements | Update the UI using third party libraries to bring the look and feel of the website closer to the desired product. | 25 |
| Track System | Creation and following of Track Systems, allowing for users to Follow set courses to complete some form of certification (Certification not provided by us) | 15 |
| Forums | Allows customers to ask questions, or seek answers through other users questions. Must be simple to search and broken into logical categories. | 10 |
| Course Creation System | Allows for the Dynamic Creation of Courses. This will be a higher-layer to many other systems. Includes the Course Viewing System, the Testing System, the Admin System, the Dashboard System, the Course List, and will allow for the uploading of videos. Includes all E-Commerce Functionality. | 50 |
| Analytics/Adv. Admin | Update The Administrative section with Access to all new Systems (such as the course creation system) and display advanced analytics on user details (Such as the amount of users completing a certain track). Includes all CMS Functionality. | 40 |
| Search Engine Optimization | Optimize the Web Application for Search Engines. Allows Users using search engines to search keywords and find the Injectronics Web App. | 25 |
| Social Media | Set up all Social Media outlets, and link them to Injectronics Web Application. This can includes things such as, liking a blog post on Facebook. | 20 |
| Responsive Design | Allow the Web Application to be Viewable on all Screen Resolutions, namely the mobile and tablet resolutions. | 50 |
| Mobile App | Create a HTML5 app for IPhone and Android through Phone-Gap. | 20 |
| One-User-Login | This insures that only one user can be on an account at a time to help prevent people sharing accounts. | 10 |

## 4.3 Testing and Implementation hours

|  |  |  |
| --- | --- | --- |
| Task | Description | Estimated Hours |
| API Testing | Testing Data through External API Calls. Black Box | 25 |
| Fault (Code) Injections | Testing Data integrity and Validity through Code Injections. Will be performed through PhantomJS, MochaJS and Laika. Black Box | 30 |
| Review Testing | Done Through Code Reviews, often done in Paired Programming. This will allow for succinct code, reusability, modularity, and familiarity. Black Box | 20 |
| Walkthrough Testing | Testing done by walking through the program, and seeing if the output is the desired output. Can be done outside of Team. White Box. | 30 |
| Purchase/Configure DNS | Purchase the desired Web URL, and connect it to the Amazon Servers. | 10 |
| Implementation | Place the Web Application and Database on the Amazon servers. | 30 |

## 4.4 Meetings and Misc. hours

|  |  |  |
| --- | --- | --- |
| Task | Description | Estimated Hours |
| September Meetings | Meetings for the Group | 20 |
| October Meetings | Meetings for the Group | 20 |
| November Meetings | Meetings for the Group | 25 |
| December Meetings | Meetings for the Group | 30 |
| Project Charter/Plan | Create the Project Charter for Injectronics. Outlines the plans of Development. | 6 |
| Course Insertion | Insert all current courses to the Injectronics Web App. | 10 |
| Test Insertion | Insert all Tests to the Injectronics Web App. | 20 |
| Video Insertion | Insert all Videos of Courses to the Injectronics Web App (which will relay the data to Vimeo) | 20 |
| Contingency | This is just window of time to allow for debugging and any problems that may arise | 130 |

Total Estimated Hours: **1000**

## 4.5 Costs/Payment structure

Right now, we believe this entire project, with all the features provided that were listed above, will take our team **1000** hours to make. Our rate for this project is **$25/hour,** which makes the total **$25,000.** This price is subject to change depending on what features Injectronics wants added or removed. The format of payment will be as follows: Every two weeks our team will provide a prototype (also called a version) of the web application. Once Injectronics accepts the prototype, they will be billed the respective hours that were required to make it. Before moving forward to the next two-week segment to work on the next prototype (version) we must receive payment for the previous version. Once payment is received we will proceed to work on the next version. However, if Injectronics is pleased with the current version then we can terminate building newer versions and proceed to the next phase of production.

Additional costs

Video hosting – Vimeo Pro

* $200 per year
* 1000 gb of storage per year
* 20 gb per week
* Private Videos

Application hosting - Amazon

* $700/3 years Approx
* $257 upfront for 3 years for EC2
* $ 12.98 / month for $155.76 / year for EC2

# 5.0 Conclusion/Liability

Our team is looking forward to working with Injectronics on the proposed system. We are confident that this application will satisfy all the requirements provided by Injectronics, and allow them to further develop the system later if required. Our application will be a cutting-edge web technology that will help expand their customer demographic, as well as provide online resources for students in an intuitive, fun, and well-designed environment. Lastly, we would like to thank Injectronics for giving our team the opportunity to build the proposed system.

Please note that we can’t guarantee that the functions contained in a completed web site will always be error-free and so we can’t be liable to you or any third party for damages, including lost profits, lost savings or other incidental, consequential or special damages arising out of the operation of or inability to operate this web site and any other web pages, even if you have advised us of the possibilities of such damages.

# 6.0 Proposal Signoff

I \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(John Vandenberg)

agree to the above Project Proposal presented by Adam Fainman, Denny Scott and Travis Scott and agree that everything within this document should not be shared to anyone without prior written authorization.

John Vandenberg

Project Sponsor

Signed this day, the of , 2013.

## Sign-Off Document

I \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(Adam Fainman)

agree to develop the system as outline in the Project Proposal.

Adam Fainman

Lead Business Analyst/Designer

I \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(Denny Scott)

agree to develop the system as outline in the Project Proposal.

Denny Scott

Lead Designer/Programmer

I \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(Travis Scott)

agree to develop the system as outline in the Project Proposal.

Travis Scott

Lead Programmer

Signed this day, the of November, 2013.