Curricular Practical Training (CS 703)

(Summer Internship - Final Report)

Prof. Iraklis Tsekourakis

Student Name: **Paras Garg**

Course Section: **CS 703-A**

**ABSTRACT**

During my summer internship at Kairos Italy Theater, I learned the implementation of the technologies and experienced the workflow in a software department of a company. Since I have some experience with web development, my lead had assigned me to design and develop some of the components for their new website and to maintain their existing websites. This report contains what I have learned during the internship.

**INTRODUCTION**

Kairos Italy Theater (KIT) is an internationally recognized as an Italian Theater Company in New York City. KIT’s mission is to maintain and spread the knowledge of Italian Culture in the United States. KIT produces performances and events by collaborating with famous Broadway theatres, US institutes, and Italian institutes.

At KIT, I was working in the software development department in a team with other interns. Each intern in my team was responsible for different phases of the web development lifecycle, and all of us are dependent on each other works. The person that I reported to was Laura Caparrotti, who is the Artistic Director of the company. Every morning, we set daily goals, and in the evening, we deliver daily work report to her.

I have worked on some web projects in the past, but not in this magnitude. The sizes of the projects on which I have worked on were very small and needed only a few members, but the components I was working on during the internship were a lot bigger. At KIT, the number of people working on a project wasn’t much, but the availability and knowledge of the developers were the important aspects of the project.

**RESPONSIBILITIES**

During the internship, there were three main responsibilities on which I was working:

1. **Designing and Development:**

The primary task was to re-development of one of their main websites that could handle and exhibit their all events on any device. I have designed and developed the interactive front-end of the website: theme, and web pages those were compatible with every screen size. In addition to the front-end, I was responsible for adding the back end functionalities and components for complete performance of the website. The top components I worked on were timeline, calendar, and upcoming events preview.

1. **Mobile Migration:**

The second task I was assigned was to migrate one website to mobile platform using media queries and CSS preprocessors. In this task, I was provided with the design image and I was asked to develop the user interface as per the given design layout and to apply all the front-end validations.

1. **Search Engine Optimization**

Another important task that was assigned to me was the search engine optimization. This task was one of the most important tasks to promote a product on the world wide web. As search engine optimization is one of the basic needs of web development, it consumes lots of time in the analysis and monitoring for each webpage of a website on a daily basis. Search Engine Optimization helps to increase the ranking of the webpage so it could appear on the top of the popular search engines like Google. My duties were to analyses of the popular keywords, and modify web page meta tags, suggest popular keywords to a content writer, to calculate the ratio of keyword stuffing, and on-page and off-page optimization to boost the web domain internet ranking.

**TECHNOLOGIES USED**

I have got the exposure to work on new technologies and to implement different technologies while working at KIT.

* **Languages :** JavaScript, HTML, CSS, CSS-preprocessors, and PHP
* **Frameworks :** Bootstrap, jQuery
* **Database :** MySQL
* **IDE :** Visual Studio Code
* **Tools :** XAMPP, and WordPress
* **SEO Tools :** Google Analytics, and Google Adwords

**LESSONS LEARNED**

1. To behave in a professional environment.
2. The difference in class and real-time application of knowledge.
3. The value of time management for proper workflow.