

IT314 Software Engineering Team 7

User Interface Design Document

[Keywords: Design, Context, Entelechy, WordPress]

Version 1.0

07 April, 2013

Winter 2012-13
DA-IICT, Gandhinagar

Overview

UI Design Document explains interface design choices made for the Entelechy Website Project and the front end functionalities.

Target Audience

Software Developers

Clients

Document Revision History

Version	Author(s)	Description	Reviewer(s)	Date
1.0	Sandeep, Nitish	UI Design Document v1.0	Swena	07 April, 2013

Table of Contents

1. Introduction	4
1.1 Purpose	4
1.2 Scope	4
2. UI Design Overview	4
2.1 Requirements.....	4
2.1 UI Design Approach and Tasks.....	5
3. Screen Shots of the Developed Website	6

1. Introduction

1.1 Purpose

The purpose of this document is to provide a description of the user interface design for the Website of DA-IICT's Campus Magazine 'Entelechy'.

Its main purpose is to –

- To explain the design choices made for the website
- To contextualise those choices
- To explain navigation system of the interface
- To explain front end functionalities

1.3 Scope

This document shall be used to systematically note and explain user interface design of the Entelechy Website. It also documents certain front-end features of the website.

2. UI Design Overview

2.1 Requirements

'Entelechy' being the campus magazine of DA-IICT has certain context in which it operates. With the student community, alumni and faculty being the stakeholders, the website must deliver a good quality user interface and design which caters to all of their needs and promises a good user experience.

Apart from overcoming the limitations of the earlier/current Entelechy website, the new website should also provide an interface design which fits the role of the magazine and its vision and mission in the long term.

The specific UI requirements for the new Entelechy website are:

- A more dynamic and interactive website with improved information architecture
- Systematic and easy to use navigation system
- Two different menu bars – one static which stays on top on scrolling containing Editorial, Table of Contents, Editorial Policy and About us, pages. While the other menu will have all the categories/sections.
- Add a 'bulletin board' section for small posts and news snippets exclusively of DA-IICT campus
- Simple direct contribute to magazine system for all registered users
- To make the website more social – like buttons, recommendations, Twitter

integration, etc.

- User profiles which display all relevant information about the users/authors. It'll have recent articles written by the user, and his personal information like name, webmail ID and bio.
- Different and suitable layouts for specific sections like 'Freeze Frame' and 'Point-Counterpoint'
- UI for admins should also improve and their job of managing the magazine should become a lot simpler – they should be able to change/modify the front end design, colour, etc. from their dashboard.

2.2 UI Design Approach & Tasks

Our approach towards implementing the UI design requirements was centred around firstly understanding basic structure and functionalities of WordPress. Once we established certain familiarity with WordPress we started tweaking the codes to experiment with the platform and learn by actually doing.

In discussion with our clients, requirement analysis team and our team leader we developed proper understanding of the requirements – layouts of various posts, navigation system, front-end features, etc. We have tried to make the interface design a balanced mixture of the *sober* and the *extravagant*.

We planned to develop a 'child theme' on WordPress, rationales behind it being that even if child them crashes, then the parent them remains unaffected, and it was easy to maintain and modify.

We started implementing our design ideas by designing our own sections and posts layouts. Next we designed and changed the WordPress header system to create two horizontal menu bars – which solved the problem of effective navigation to a great extent. The top menu bar was made static on top, i.e. it will not move on scrolling down the screen, and we put pages of Editorial and Table of Contents on that menu. The Table of Contents page was an extremely challenging thing to implement - it dynamically fetches all the articles of an edition, and sorts them by categories/sections.

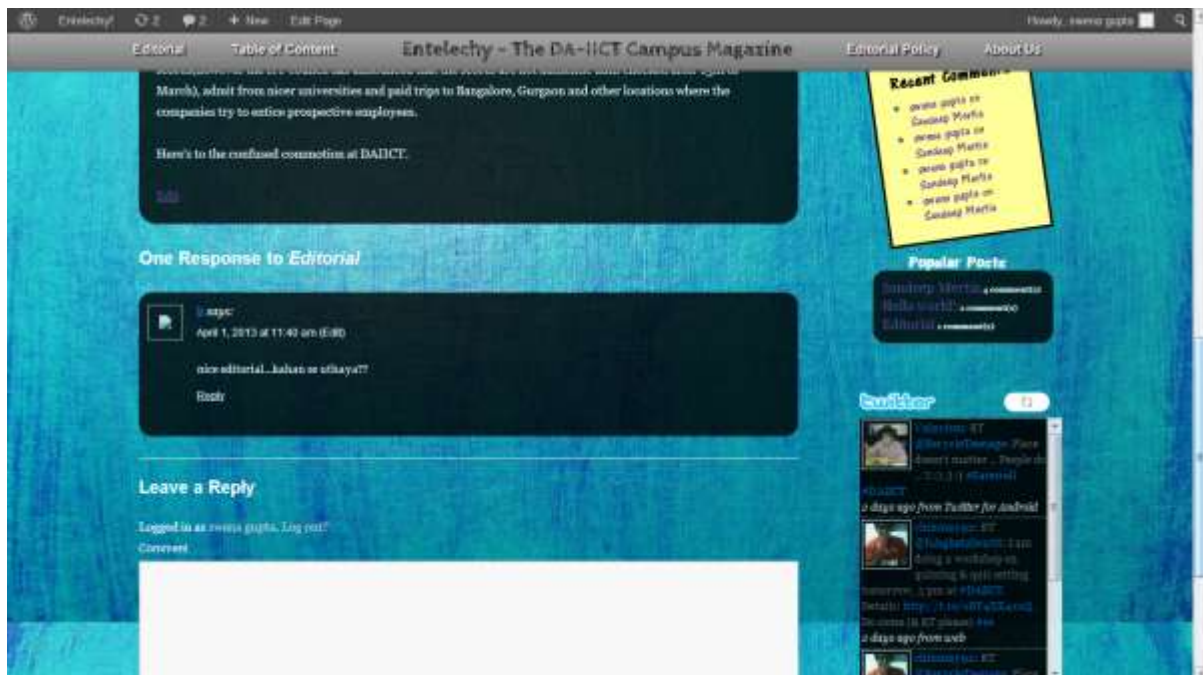
One of the very challenging parts of the UI design was to design custom templates for Entelechy sections like 'Freeze Frame' and 'Point-Counterpoint'. These sections required specific layouts for 'Pictures' and two-sided debate article respectively.

Later, working on widgets we developed a custom post type of 'bulletin board' section on

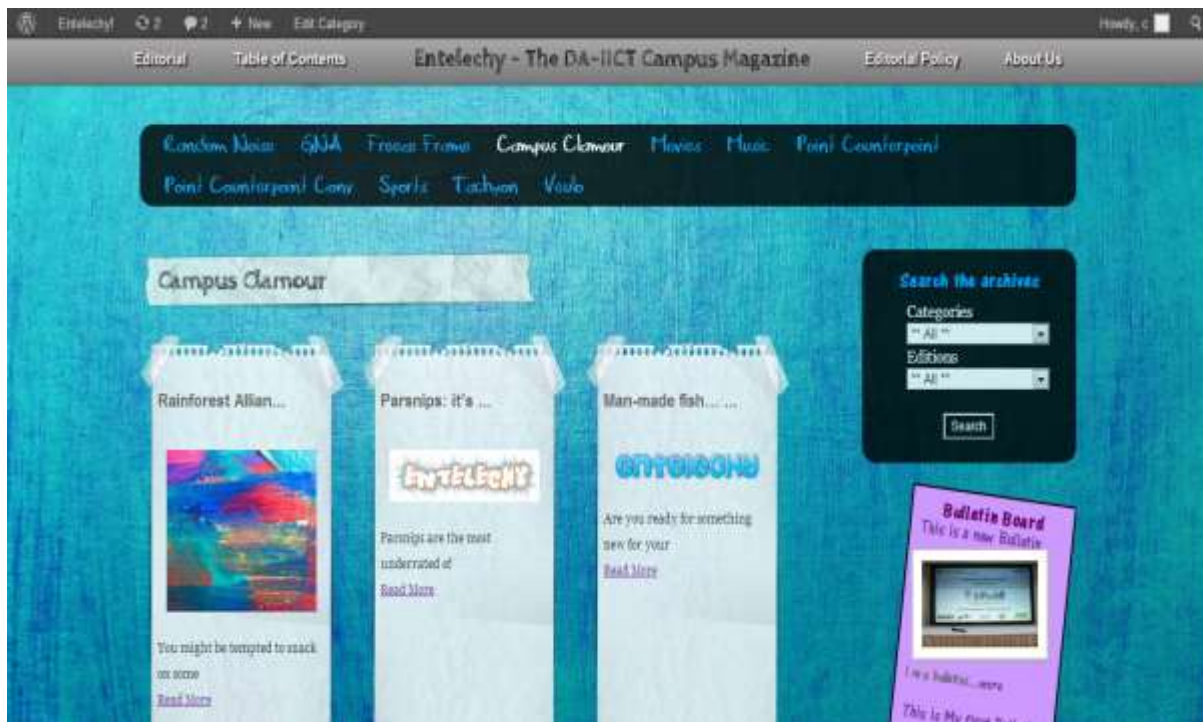
the homepage. Then we designed and implemented 'recent comments' and 'popular posts' section on the homepage. And after it we integrated Twitter feeds on the homepage. Lastly, we added 'like' button functionality on all posts.

3. Screen Shots of the Developed Website

- **Homepage**



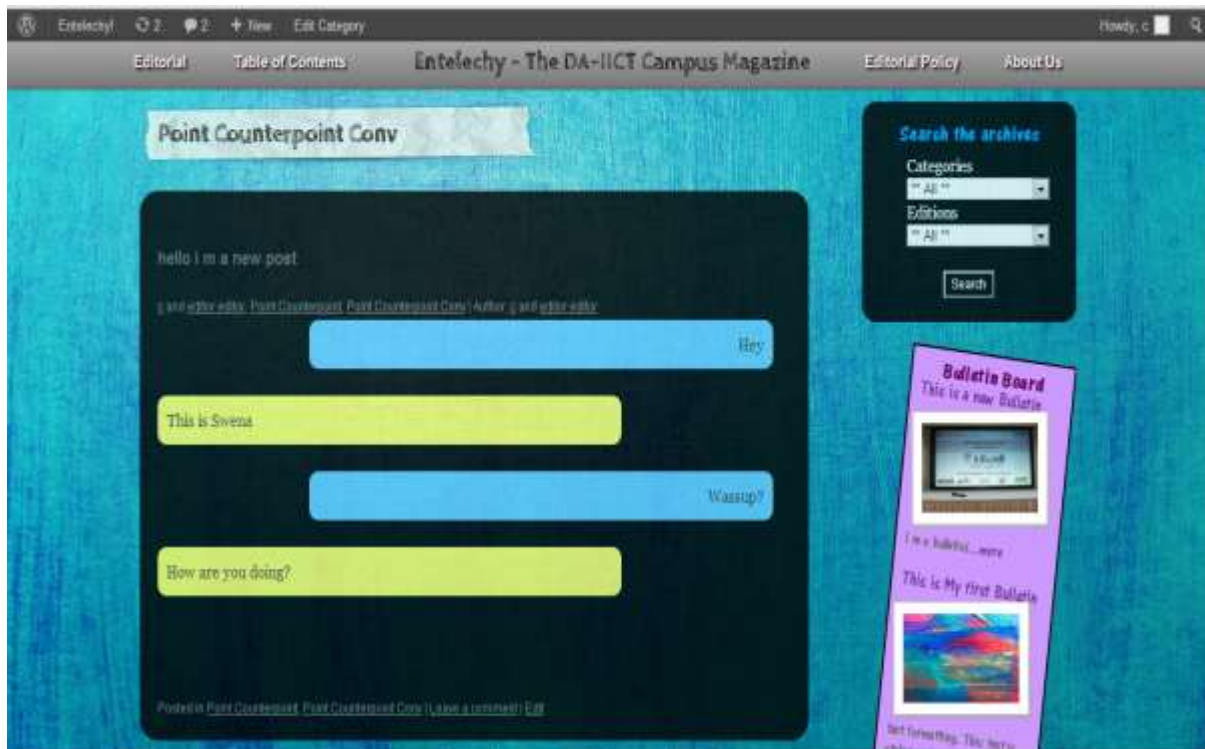
- General Post/Article – eg. Campus Clamour section



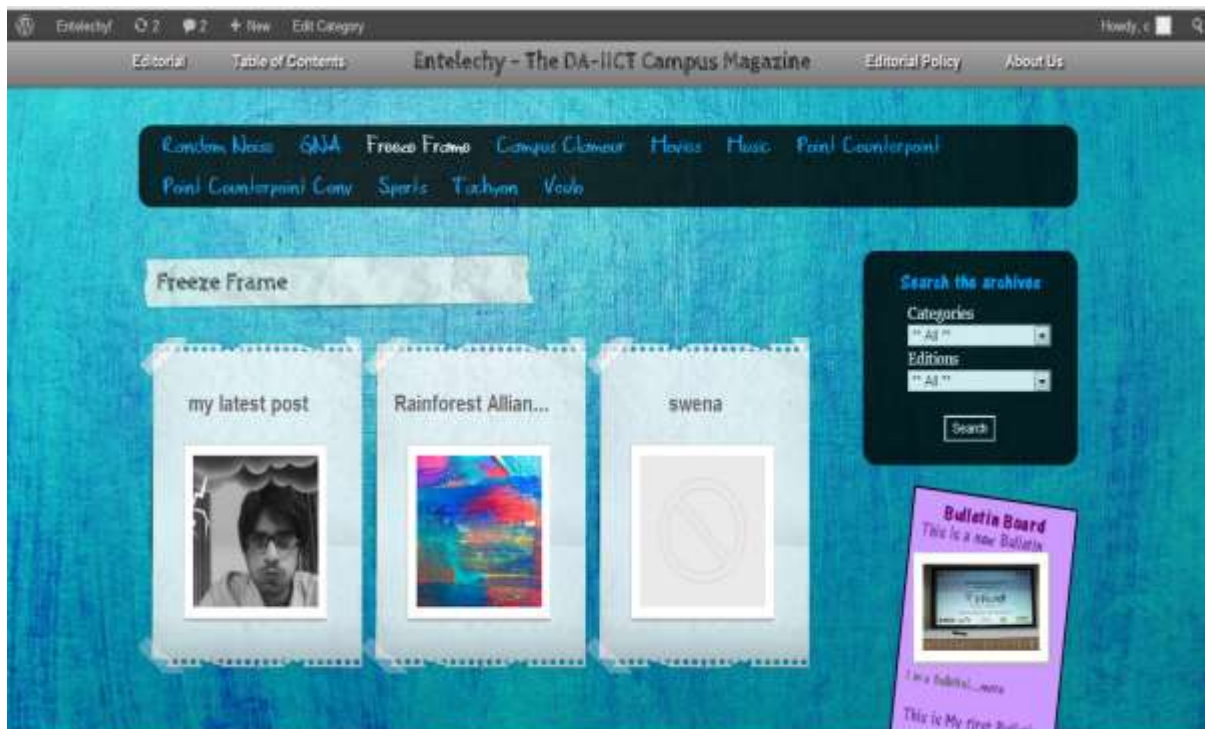
- Point Counterpoint – Layout 1



- Point Counterpoint – Layout 2



- Freeze Frame



- **Table of Contents**

