

Case Study For Social Compass for Talents

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Client Requirement

- Social Compass for Talents to explore a dynamic and fast education community
- Academic and Business scene the website acts as a platform for valuable information sharing
- Browse almost every section of the website including :

News, Events, Messages, Question and Answer,
Contacts, recent updates, statistics, articles,
Create your profiles, groups, forums,
View other member's basic profiles,
Search and apply for jobs





The System Also Featured:

- Student can share notes, materials, gain companies insight or seek expert advice on learning materials from top advisors
- Designing the collaborative relationships of faculty and students interactions to make the most of their experiences
- Strengthen the professional connections and help them build their professional networks of colleges, universities etc. thus helping in their career growth





Project Challenges

Team faced the following challenges:

- Developing a robust framework for the site which is capable of managing millions of users at the same time
- Ensuring easy navigation through the implementation of web usability principles in the website design
- Synchronizing the integrated features like articles, messages, statistics
- Enabling the site to operate at top speed even in peak traffic hours and maintaining good load balance
- Ensuring safe and secure transfer of data



Technologies Used

Operating System & Server Management	Red Hat Linux OS, Multi-Server Architecture with Staging & Production Environment through Version Controlling releases, Server Optimization, Security & SSL Implementation, Scheduler for Back-ups, Alert Monitoring System Integration, Server Performance Tuning at regular intervals, Software Firewall Configuration & Maintenance
Development Tools & Environments	PHP5+, Symfony Framework 1.4, AJAX, HTML5, CSS3 etc.
Database	MYSQL Database Server, DB Clustering, DB Optimization, Master Slave Replication, Query Optimization, Scheduler for Backups



Manpower

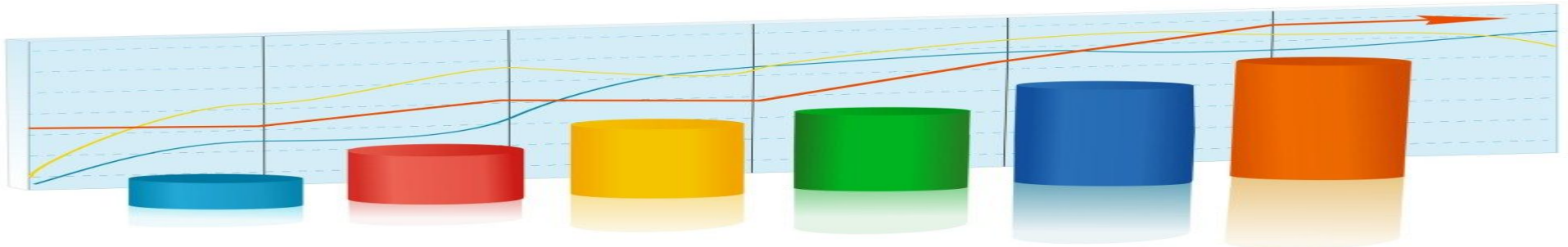
Project Leader	1
Developers	2
Designers	1
Quality Assurance Testers	1



Planning

The enormous structure of the website and the challenges involved necessitated the adoption of a four-tier approach that consisted of:

- MySQL Server Database, Tables, Stored Procedures
- Conversion of data between incompatible type systems in databases and accessing data
- All the business logic procedures for various modules formed the Business Logic layer
- The GUI of the website formed the User Interface layer





Architecture

- ▣ Mainly Characterized by rich user data and featured extensive capabilities
- ▣ Development Structure was specifically implemented to facilitate
- ▣ Effective access to the database in an object oriented context
- ▣ An interface translating the object logic to relational logic
- ▣ The access to the database was enabled through the creation
- ▣ Only the complex retrieval of data from multiple tables was facilitated
- ▣ Images, applications and data were called from their respective servers



Development Highlights

- The entire framework was kept highly scalable in order to provide adaptability & ease while incorporating new features
- Extensive pre-development research was carried out to create a robust application with extensive customizations in minimum time frame
- Web usability guidelines were strictly adhered during the development
- The interface was made easily navigable through the judicious use of CSS, AJAX and HTML controls
- The site was developed and fully functional within a span of 6 months



Sources :

<http://www.brainvire.com/social-compass-talents-exploration-dynamic-fast-education-community>

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