



HACETTEPE UNIVERSITY
COMPUTER ENGINEERING
BBM473 DBMS LAB.
PROJECT REPORT

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Subject: News Website

CONTENT

1. Introduction
2. Design Phases
3. Used Technologies
4. Project Functions
5. Conceptual and Practical Gains

1) INTRODUCTION

My project is a news website with three user types. User types: members, authors and admins. For each authorized user has different interface.

Members who login this system can read the news in the categories they desire, they can comment and vote on them. Authors can add news from their own panels, edit comments in their own news. Admins has the authority to edit the details in the system. The news displayed to the user who enters the system from outside is different from the information displayed to the user who has logged in.

You can easily sign up to a system that has a simple interface and all the news on the system can be viewed after login process. The author account can only be created by admins and the admin account can be created by the site owner.

2) DESIGN PHASES

- The requirements for a news site were determined by looking at various examples.
- The technologies to be used have been identified.
- System database design is determined according to requirements and visualized with diagrams.
- System coding has been made.

3) USED TECHNOLOGIES

Oracle was used as the database management system in this website.

PHP programming language was used for the site background.

Html, CSS and the bootstrap 3 framework was used in the front-end.

Frontend design enhanced with small JavaScript plugins.

4) PROJECT FUNCTIONS

- Users and authors can login from the login page of the system. Every user will be directed to their own panel.
- Admin will log in from his / her panel because it is a different user type.
- Users can sign up to the system from the registration screen.
- Authors added system by admins.
- Passwords are stored in the database at MD5 format.
- System has data entry and update screens for most of the tables in my database. And relation tables filled automatically.
- Admin, user, and author add images for different parts of the system.
- There are many screens that list on tables. Some of them:
 - User List (on admin panel)
 - Author List (on admin panel)
 - The news list belongs to each category.
- There are many filtered page in system. Some of them :
 - Authors filter by managed categories
 - Filtering authors who share the most news

- User filtering by gender
- There are many statistical results in the system. For example: for all authors, number of news published, the total number of comments in her/his news and number of votes in her/his news. Admins can show average user and author age..
- Transactions used on the system in PHP section. For example, when adding a news item, data is added to both the news_category and the news table. I evaluated this transaction as a transaction and used the NOT_AUTO_COMMIT option during php oci_execute. If any errors occur during the inserts, I end the function with oci_rollback operation.

Incomplete Functions:

- Reporting screens.
- Processing History
- For a few tables add,update screens.

5) CONCEPTUAL AND PRACTICAL GAINS

- Gain experience with query structure in Oracle database
- Gaining complex query writing skills
- Design experience of a website from start to finish
- Understanding the importance of transactions for associated tables.
- Gaining the ability to create and manipulate related tables.

- <https://dev.cs.hacettepe.edu.tr/~b21328103/haber>

- Author account :
email: author@gmail.com
Password: 123456

- <https://dev.cs.hacettepe.edu.tr/~b21328103/haber/admin>

- Admin account :
email: admin@gmail.com
Password: 123456

