

## **NGBLA** (National German Basketball League for Amateurs)

### **Goal:**

Create fan page for national German basketball league.

### **Iterations:**

#### **0. (login, register, logout);**

##### **1. First iteration:**

- 1) *Create post(for superuser);*
- 2) *Edit post(for superuser);*
- 3) *Delete post(for superuser);*
- 4) *Read posts list;*
- 5) *Read post in detail;*

##### **2. Second iteration:**

- 1) *Create forum post;*
- 2) *Edit forum post;*
- 3) *Delete forum post;*
- 4) *Display forum post list and post in detail;*

##### **3. Third iteration:**

- 1) *Comment in forum and news feed;*
- 2) *Delete comment;*
- 3) *Submit match details (for superuser);*
- 4) *Submit player details (for superuser);*

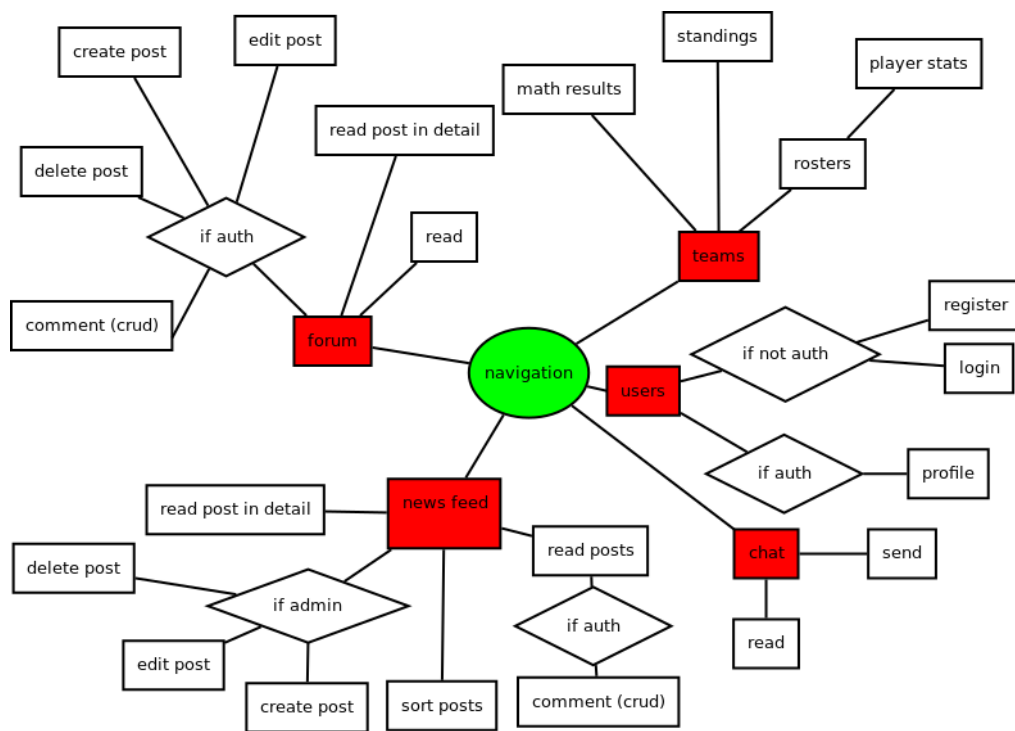
##### **4. Fourth iteration:**

- 1) *Submit score (for superuser);*
- 2) *Sort out news by team;*
- 3) *Chat (read, send);*
- 4) *CRUD player statistics(for superuser);*

### **Technologies used:**

1. *Python Django (framework);*
2. *JavaScript;*
3. *SQLite;*
4. *Git (github);*

## Service actions diagram:



Forum for teams fans (crud functions);

- *read post;*
- *create post;*
- *edit post;*
- *delete;*
- *comment;*

Chat (AJAX);

- *read;*
- *post;*

Login/register forms;

- *create user;*
- *authenticate user;*

Teams statistics;

- *roster;*
- *standings;*
- *results;*
- *players stats;*

Schedule;

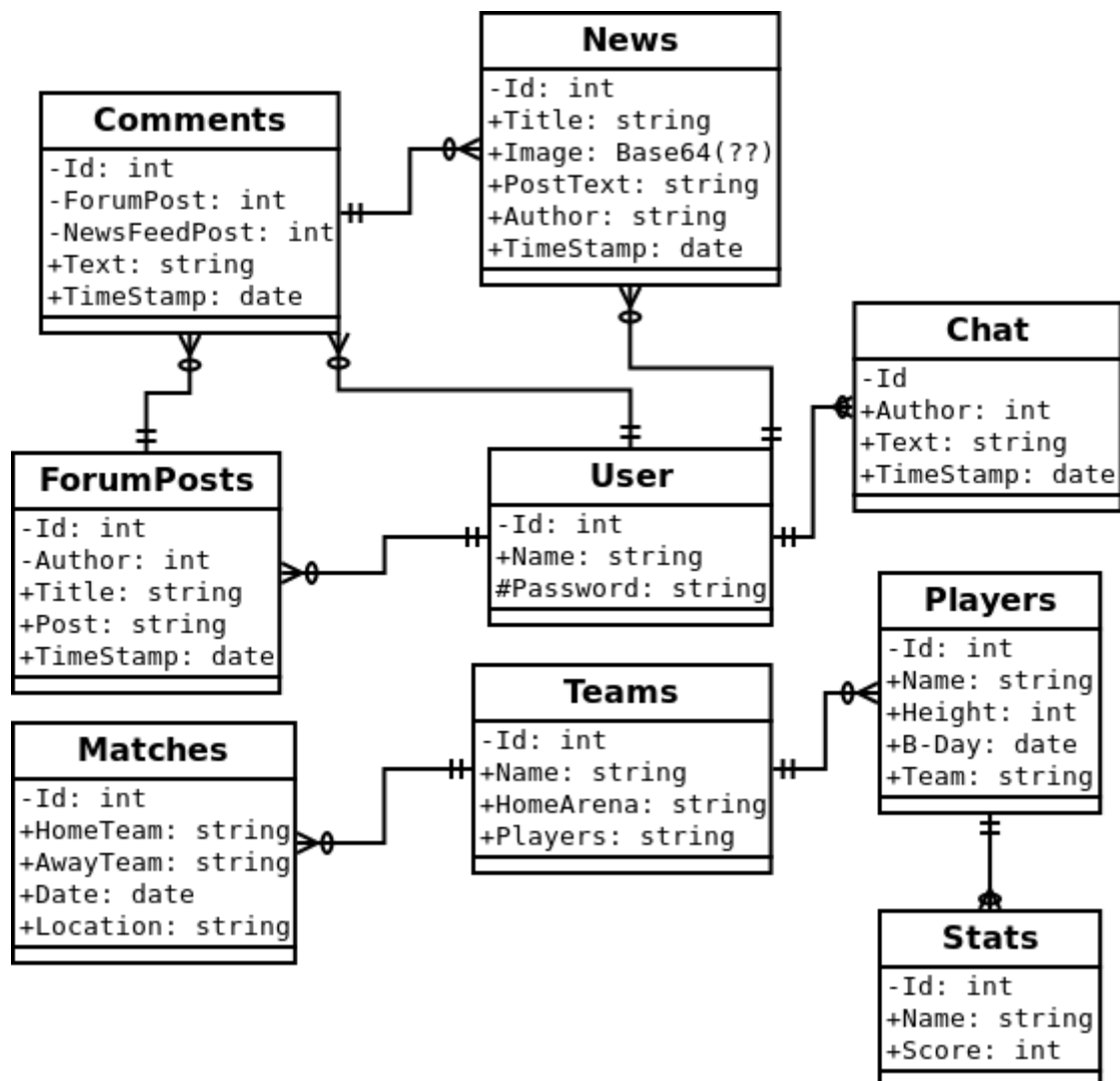
- *upcoming matches;*
- *history;*

News feed;

- *read post;*
- *create post;*
- *edit post;*
- *delete;*
- *comment;*
- *sort by team;*

## Database structure:

### Diagram:

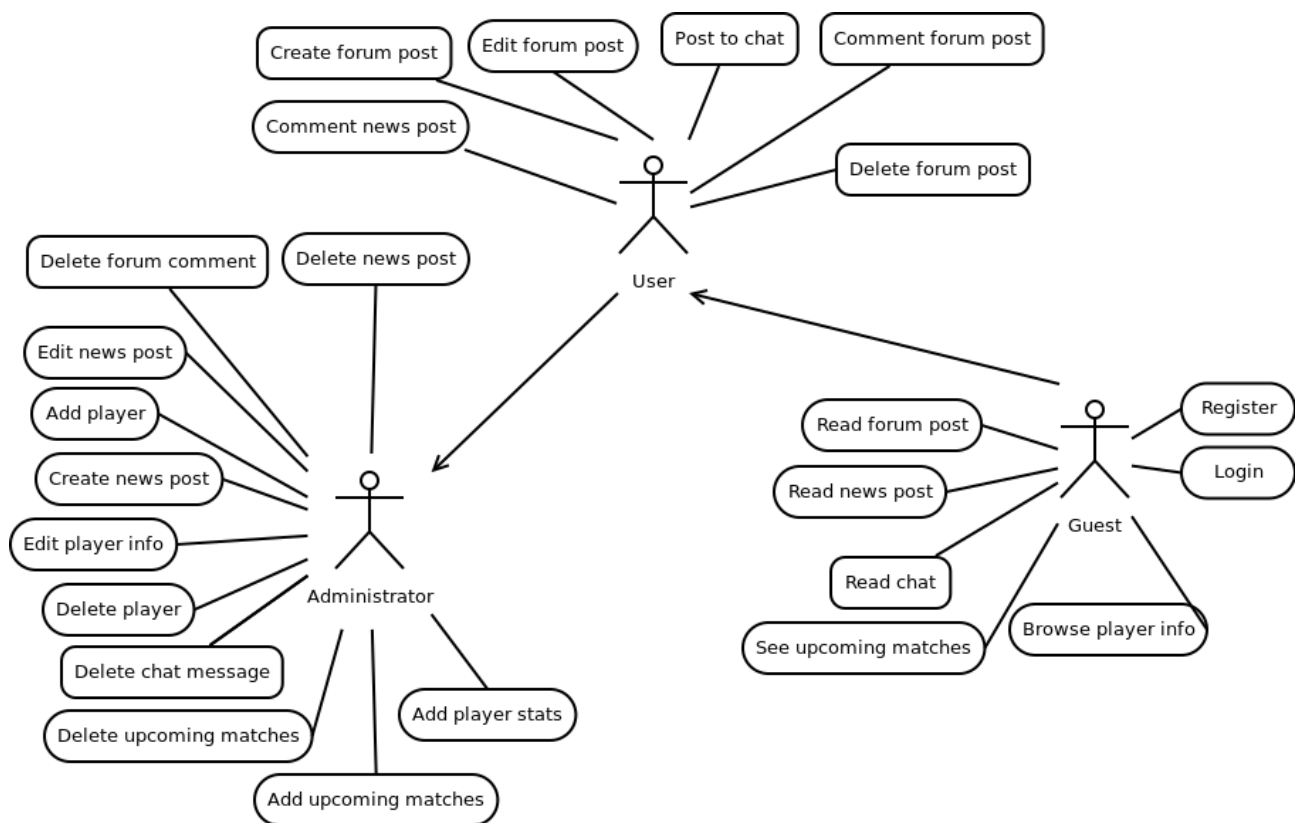


Listed tables can be found in the following page.

**Tables:**

- Users;
  - *Name*;
  - *Password*;
- News;
  - *Title*;
  - *Image*;
  - *PostText*;
  - *Author(User.Id)*;
  - *TimeStamp*;
- Players;
  - *Name*;
  - *Height*;
  - *B-Day*;
  - *Team(Team.Name)*;
- Stats;
  - *Player(Player.id)*;
  - *Player(Player.Name)*;
  - *Score*;
- Teams;
  - *Name*;
  - *HomeArena*;
  - *Players(Player.Name)*;
- Matches;
  - *HomeTeam(Team.Name)*;
  - *AwayTeam(Team.Name)*;
  - *Date*;
  - *Location(Team.HomeArena)*;
- ForumPosts;
  - *Author(User.Id)*;
  - *Title*;
  - *Post*;
  - *TimeStamp*;
- Comments;
  - *ForumPost(ForumPosts.Id)*;
  - *NewsFeedPost(News.Id)*;
  - *Text*;
  - *TimeStamp*;
- Chat;
  - *Author(User.Id)*;
  - *Text*;
  - *TimeStamp*;

## Use case diagram:



User inherits Guest's functions and Administrator inherits both User's and Guest's functionality.