**Chess tournament planner (Swiss tournaments, ELO points)**

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**Section 1: Domain of Application, Motivation, and Goals of the Website**

Domain of Application:

The domain of application for this website is chess tournament planning, specifically focusing on Swiss tournaments. Swiss tournaments are a popular format in chess where participants are paired against opponents with similar scores, ensuring fair competition throughout the event.

Motivation:

The motivation behind creating this website is to make the process of organizing and participating in chess tournaments easier and more user friendly. Traditional methods of planning tournaments can be time-consuming and prone to errors. By providing an online platform, organizers can efficiently manage the event, and players can easily register and track their progress.

Goals of the Website:

-efficient tournament planning: the website aims to simplify the process of organizing chess tournaments by providing tools for creating and managing Swiss tournaments. Organizers can set up the event details, manage registrations, and generate pairings automatically based on the Swiss system.

-enhanced participant experience: for players, the website offers a user-friendly interface for registering for tournaments, checking schedules, and monitoring their performance. It aims to provide for players everything they could want in one place that is fast, easy to use and available from their mobile devices.

-ELO points usage: the website will use ELO rating system support, which is widely used in chess to assess players' skill levels. By tracking ELO points, both organizers and players can gauge their performance and progress over time, adding an extra layer of competitiveness and motivation to the tournaments.

-community engagement: beyond just organizing tournaments, the website seeks to gather together chess enthusiasts. It may include features such as discussion forums, chess-related resources, and social features to connect players and organizers.

**Section 2: Description of User Roles**

1. Tournament organizer

The Tournament Organizer is responsible for planning, managing, and overseeing the chess tournaments hosted on the website. They create tournament events, set up tournament parameters (such as time controls, number of rounds, and tiebreak criteria), manage registrations, generate pairings.

2. Player

Chess Players are the participants in the tournaments. Their main responsibility is to register for tournaments, play their scheduled matches, and follow the tournament rules and regulations. They aim to perform well to improve their ELO rating and potentially win prizes.

3. System Administrator

The System Administrator manages the technical aspects of the website, ensuring its smooth operation, security, and performance. They handle server maintenance, software updates, database management, and troubleshooting technical issues. They are responsible to help if something goes wrong while tournament is being played.

4. Software Developer

Software Developers are responsible for designing, developing, and maintaining the website and its features. They implement new functionalities, optimize existing code, fix bugs, and ensure compatibility with different devices and browsers.

**Section 3: Functionalities of the Project**

web pages, sections, special elements of the UI

Homepage

* Overview of upcoming tournaments
* Featured tournaments
* Registration/login options for players
* Registration/login options for organizers
* Information about the platform and its features

Registration page:

* Form for players and organizers to register in our website

Tournament creation page:

* Form for creating new tournaments
* Options to set tournament details (name, place, date, time controls, number of rounds, etc.)
* Ability to specify eligibility criteria and registration fees
* Integration with the ELO rating system to set player rating restrictions

Tournament listing page:

* Overview of the tournament details (date, time, location, format, etc.)
* Registration button for players interested in joining
* List of registered players
* Ladder and standings for finished tournaments

Tournament tracking page:

* Interface for players and organizers to keep track on ladder
* Automatic updating ELO points and position in tournament
* Page to check schedule for matches
* Pairings for each round as they become available
* Standings and results for completed rounds

User dashboard:

* Overview of upcoming tournaments the user has registered for
* Overview of upcoming tournaments the user is hosting
* Current ELO rating and rating history
* Access to personal tournament history and performance statistics
* Ability to edit profile and manage account settings

Game reporting and results page:

* Interface for players to report game results
* Verification process for submitted results
* Automatic updating of standings and player ratings based on reported results

Community forums:

* Page for discussions among players, organizers, and spectators
* Includes categories for general chess discussions, tournament announcements, discussions about tournaments, strategy sharing, and feedback
* Allows users to create new threads, reply to existing ones, and upvote or downvote posts

Notifications:

* Real-time notifications for tournament updates, match results, new pairing and forum activities

Data analysis functionalities

* ELO rating tracker:
  + Players can track their rating over time with visualization
* Analytics dashboard:
  + Organizers can track players, trends and some other data from their tournaments with visualization

access control: which role has access to given subset of functionality

Players

* + Tournament listing and details
  + Registering for tournaments
  + Tracking ongoing tournaments
  + Player dashboard
  + Community forum

Organizer

* + Tournament listing and details
  + Registering new tournaments
  + Tracking ongoing tournaments
  + Community forum

Software developer and system administrator

* everything