

# The Inquisition trivia system

BYUI will host the first edition of The Inquisition a hispanic-trivia contest in July.

A system is needed to:

- Display questions for The Inquisition contest.
- Keep track of the winner in each round.

A database will be required to store Questions, Question Topics, Teams, Participants and Round Results.

## Proposal

A web solution was presented to the contest organizers and was approved.

To develop this web solution, an MVC approach will be taken for design and coding.

A MySQL database will be design and implemented.

HTML5 and CSS3 will be used as modern development languages.

CRUD operations will be needed for all entities (Questions, Question Topics, Teams, Participants and Round Results), this functions will be coded into the model. PDO will be used to interact with the database.

A controller will be needed to get the right information from the database and to render the appropriate view.

Actions in the controller include:

- Login
- Start Contest
- Show Questions
- Show Answer
- Show Administration Menu

Data validation will be used in the controller to send secure data for CRUD operations.

Custom functions will be used as needed.

## Controller

Action	Description
login	Depending on the user type is the action to be taken.
startContest	Shows: Choose a game Start Contest button  Loads available games. select * from game where winner = NULL; because of this query, new games are generated after the game is done.
pickTopic	loads the topics select * from topic;
showQuestion	<b>SELECT HOW TO SELECT RANDOM QUESTIONS</b>
showAnswer	shows the answer Clicking done button gets back to pickTopic
showAdminMenu	

## Model

Action	Description
CRUD	CRUD operation will be required for every Entity: <ul style="list-style-type: none"><li>• Questions,</li><li>• Question Topics,</li><li>• Teams,</li><li>• Participants,</li><li>• Round Results.</li></ul>
get random question	at contest time, random questions need to be selected.
update games	games are created at contest time, and the winners need to be updated.

# The Inquisition Contest.

Relational Entity Diagram

