

Hiscore

Hiscore is a demonstration of an implementation of the Symfony framework. It shows high scores for a fictitious game, and allows users to view high scores, submit their own scores, sort and filter the scores.

System Requirements

This demonstration has been created on a system running the following

- Windows 10
- PHP 8.1.3 (NTS Visual C++ 2019 x64)
 - (php.ini - enable curl, gd, mbstring, openssl, pdo_mysql)
- MySQL Ver 8.0.19 for Win64 on x86_64 (MySQL Community Server - GPL)
- Composer 2.2.6
- Symfony 6.0.6 (env: dev, debug: true)
- Symfony CLI

Setting Up The Project

Download Source Files

```
$ cd c:\code
$ md hiscore
$ cd hiscore
$ git clone https://github.com/spherickinetic/hiscore.git
```

.env file Setup

Uncomment the MySQL database config line
Change the MySQL line to use MySQL username and password. (*user, user password*)
Change the MySQL line to use db_name. (*hiscore*)

Run Composer Install

```
$ composer install
```

Create Database

```
$ symfony console doctrine:database:create
```

Run Migrations

```
$ symfony console doctrine:migrations:migrate
```

Insert Data

Run the SQL statements in the enclosed database-dump.sql file from a MySQL command line.

Run the Symfony development server

```
$ symfony server:start
```

The demo should now be accessible at ***127.0.0.1:8000/hiscore***

User Roles

The system has 2 user roles (USER and ADMIN)

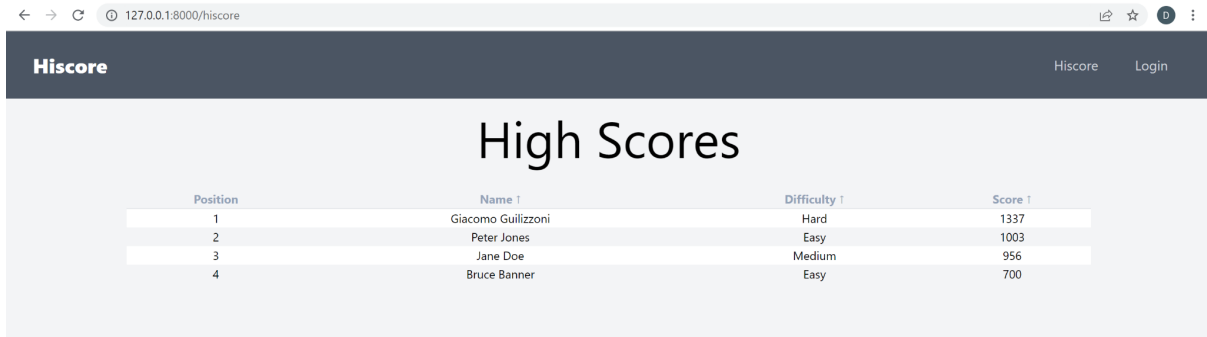
- The system allows non logged in users to view moderated high scores.
- Logged in users can submit their high scores for moderation
- Logged in Admins can moderate the high scores to allow users to see them in the system.

A series of test users are provided in the system, 4 with user privileges, and 1 with administrator privileges. Additional users can be added by navigating to the ***/register*** route.

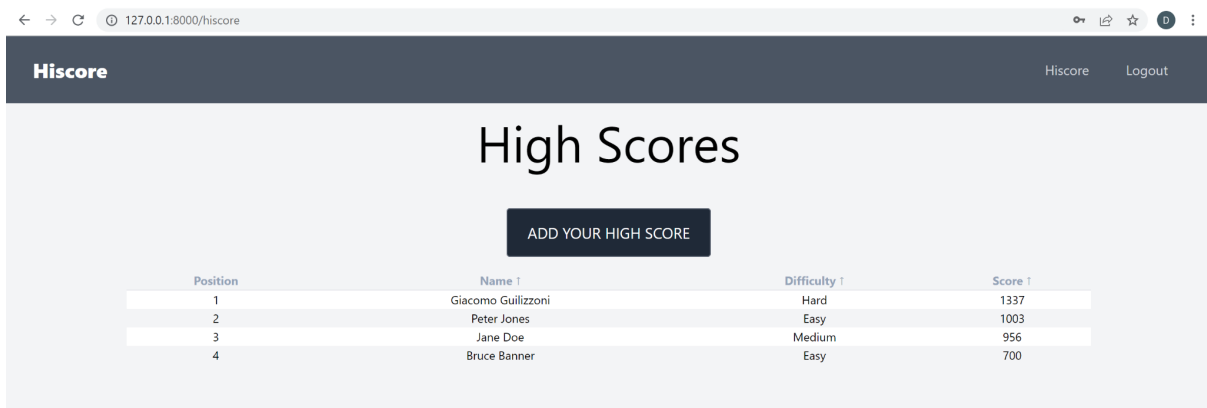
Email	Password	Role
admin@gmail.com	admin123	ADMIN
giacomo@gmail.com	user123	USER
peter@gmail.com	user123	USER
jane@gmail.com	user123	USER
bruce@gmail.com	user123	USER

Logging In

To log in, click the Login button on the right of the header banner, complete the login form, then click 'Sign In'. You should be redirected to the /hiscore page, and see the 'Submit your high score' button.



Position	Name ↑	Difficulty ↑	Score ↑
1	Giacomo Guilizzoni	Hard	1337
2	Peter Jones	Easy	1003
3	Jane Doe	Medium	956
4	Bruce Banner	Easy	700

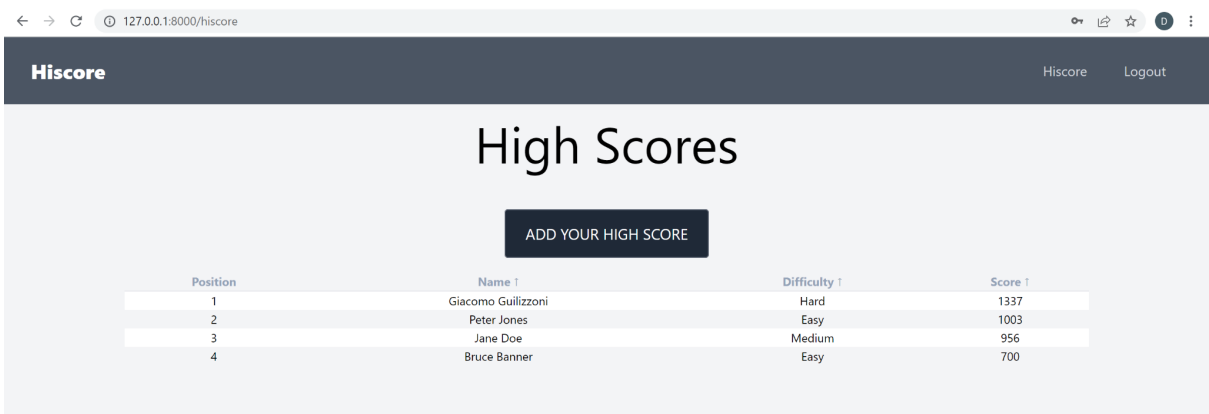


ADD YOUR HIGH SCORE

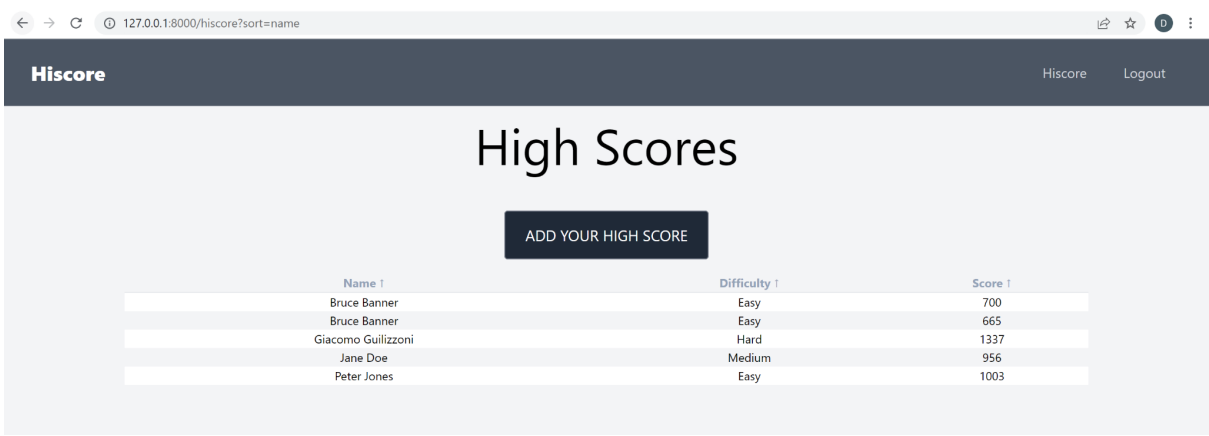
Position	Name ↑	Difficulty ↑	Score ↑
1	Giacomo Guilizzoni	Hard	1337
2	Peter Jones	Easy	1003
3	Jane Doe	Medium	956
4	Bruce Banner	Easy	700

User Functionality

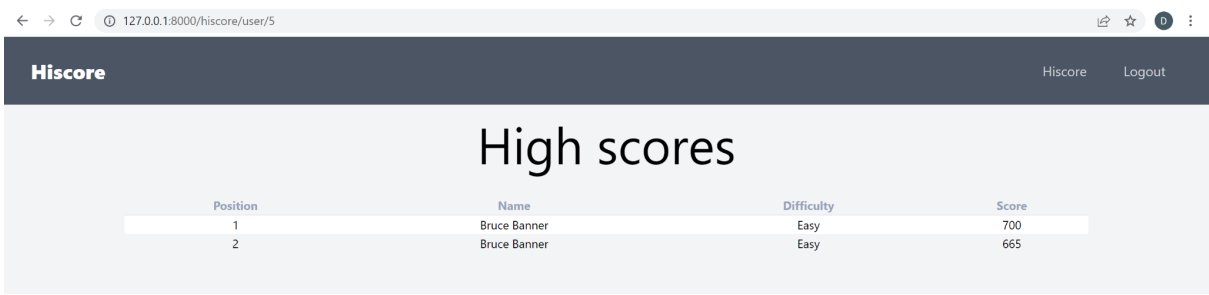
When a user visits the `/hiscore` page, they are presented with a list of the highest scores for each user.



The user can sort the columns by name, difficulty or score. Clicking the column header on the `/hiscore` page grid shows a list of all high scores, sorted by the selected column.



The user can also click on each name or difficulty, to view a filtered list of all scores for the corresponding item.

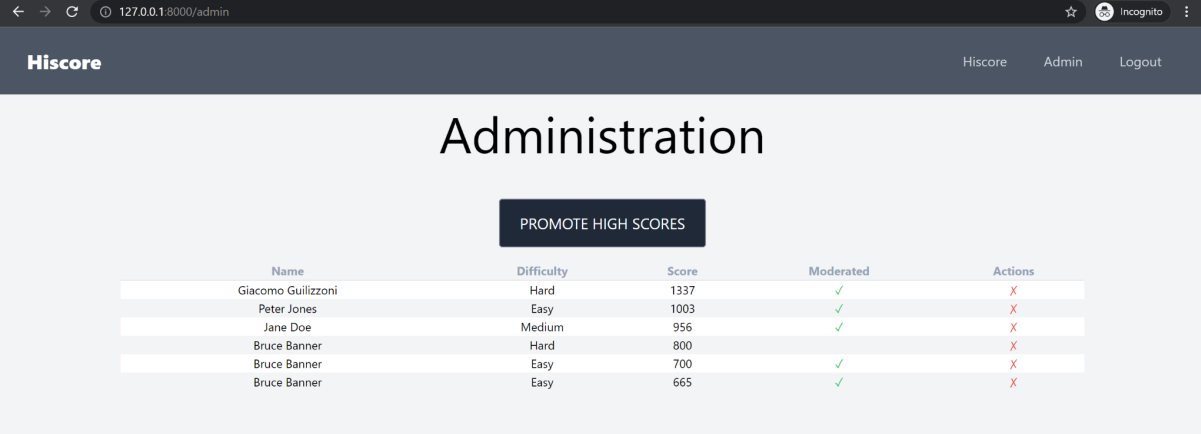


Clicking the link at the top left hand side of the header banner returns the user to the `/hiscore` page.

Administrator Functionality

In addition to having all user functionality, an admin can also visit the **/admin** page, by clicking the link on the right hand side of the header banner, where a list of all high scores is shown, whether moderated or not.

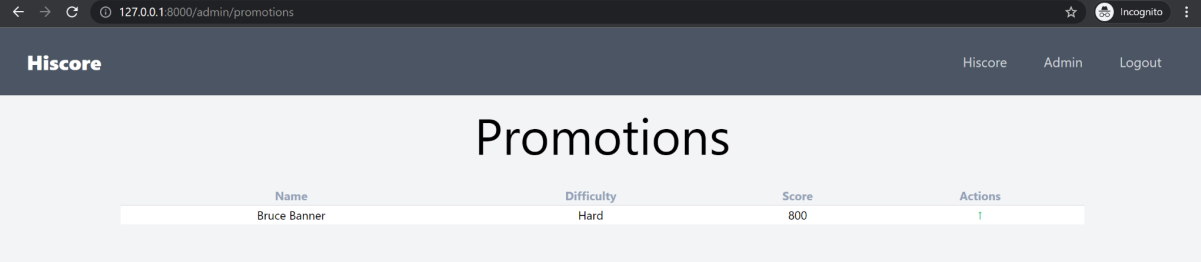
The admin can delete a high score from here, by clicking the x icon in the grid.



The screenshot shows the Hiscore Admin page. The browser address bar is 127.0.0.1:8000/admin. The header has 'Hiscore' on the left and 'Hiscore', 'Admin', and 'Logout' on the right. The main heading is 'Administration'. Below it is a 'PROMOTE HIGH SCORES' button. A table lists high scores with columns: Name, Difficulty, Score, Moderated, and Actions.

Name	Difficulty	Score	Moderated	Actions
Giacomo Guilizzoni	Hard	1337	✓	X
Peter Jones	Easy	1003	✓	X
Jane Doe	Medium	956	✓	X
Bruce Banner	Hard	800	✓	X
Bruce Banner	Easy	700	✓	X
Bruce Banner	Easy	665	✓	X

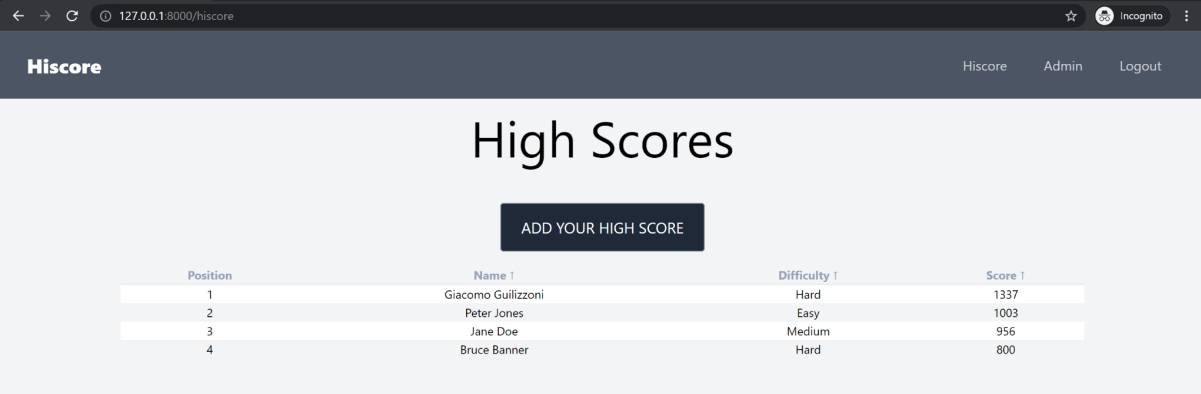
To promote a high score, the admin can visit the **/admin/promotions** page.



The screenshot shows the Hiscore Admin Promotions page. The browser address bar is 127.0.0.1:8000/admin/promotions. The header is the same as the previous page. The main heading is 'Promotions'. Below it is a table with columns: Name, Difficulty, Score, and Actions.

Name	Difficulty	Score	Actions
Bruce Banner	Hard	800	↑

The grid here shows all high scores that are not moderated. To moderate a high score, the admin clicks on the arrow icon. The high score is then visible to users



The screenshot shows the Hiscore High Scores page. The browser address bar is 127.0.0.1:8000/hiscore. The header has 'Hiscore' on the left and 'Hiscore', 'Admin', and 'Logout' on the right. The main heading is 'High Scores'. Below it is an 'ADD YOUR HIGH SCORE' button. A table lists high scores with columns: Position, Name, Difficulty, and Score.

Position	Name	Difficulty	Score
1	Giacomo Guilizzoni	Hard	1337
2	Peter Jones	Easy	1003
3	Jane Doe	Medium	956
4	Bruce Banner	Hard	800

API Functionality

The system works as a simple API, allowing users to query the data using JSON requests.

Request method	POST
Endpoint	/api/hiscores
Request Body	<pre>{ "score": 555, "moderated": true, "deleted": false, "user": "/api/users/1", "difficulty": "/api/difficulties/3" }</pre>

This request will add a high score into the database.

Request method	GET
Endpoint	/api/hiscores/{ID}
Request Body	<i>Empty</i>

This request will get the high score with the ID passed in the endpoint.