The proposed solution involves connecting students through Facebook using their vMoodle accounts. The solution should allow students to search the forums using tags (topic markers assigned to new threads upon creation) or by key words. The solution should include a way for teachers to quantify a student's involvement in the forums.

System and Object Design

The vMoodle forums are represented as a Facebook application with additional features. Therefore, there are two views exposing the same system. Events taking place in one must be reflected in the other, leading to a set of controllers that synchronize updates.

The JavaScript API contains functions that communicate with the request handler. From there, the request handler determines where to send the request. The Moodle request handler makes sure that all the correct tables are updated in the database, such that both views display the correct information as soon as it is available. The Data Gathering object fetches information concerning student performance.

Implementation

Score Calculation

To make vMoodle Social useful to teachers, it provides a way to quantify student involvement. The “Post Score” is based on the percentage of total posts belonging to a particular user. The “Rank Score” is the ratio of a user’s total rank over their total potential rank. These scores can be used as part of a student’s grade in a course, like a participation score for example.

Notifications

The implementation of the proposed system, along with its use cases meet all the specifications set forth at the start of the project.

Test setups were created prior to each addition to the API, ensuring the ensuing implementation provided the functionality that was expected from the specification.

Verification

• The implementation of the proposed system, along with its use cases meet all the specifications set forth at the start of the project.
• Test setups were created prior to each addition to the API, ensuring the ensuing implementation provided the functionality that was expected from the specification.

Screenshot

Summary

• vMoodle Social expanded the functionality of the forums to allow more meaningful interactions between students while providing a wealth of information to course administrators.
• As a Facebook application, students are able to connect outside of the classroom, fostering relationships that can improve classroom performance.
• In the future, vMoodle Social will enter full use for students taking courses under professor Ming Zhao as a beta test.

Acknowledgement

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