

Topic: Moodle Assistant	Author: Carlos Acevedo Morales	Date: 8/29/2022
<p><i>Problem Background: UPRM Students are often required to use the Moodle service for their classes. Due to current living circumstances in Puerto Rico, power outages are frequent, as well as server-side outages. A student that would be in any of these situations is unable to access any course documents or resource.</i></p> <p><i>This problem hinders the academic prowess of the students even more than before, due to the course materials being available mostly using Moodle. While a student can circumvent this problem by downloading everything available to their device, this task can be a hassle as they would have to download everything one by one and organize the files themselves.</i></p>	<p><i>Countermeasures:</i></p> <ul style="list-style-type: none"> <li>• <i>Utilize the Moodle API to automate the mass download of the materials for each course.</i></li> <li>• <i>Provide an offline version of the calendar so that students do not have to be connected to the internet to be able to view upcoming course events.</i></li> <li>• <i>Allow users to see if Moodle is currently offline due to server-side issues. (To avoid confusion)</i></li> <li>• <i>Allow a platform that would serve as a fully-offline Moodle interface that would periodically update when the user has an internet connection.</i></li> </ul>	
<p><i>Target:</i></p> <ul style="list-style-type: none"> <li>• <i>Create a tool that will allow students to more efficiently navigate and utilize moodle</i></li> <li>• <i>Provide a way that students can create their own offline repository for all of their classes</i></li> <li>• <i>Inform users about the current Moodle server status (offline or online).</i></li> <li>• <i>Integrate different quality of life features to ease with some actions taken through Moodle.</i></li> </ul>	<p><i>Check/Evaluate:</i></p> <ul style="list-style-type: none"> <li>• <i>Students will not need an active internet connection to access their courses.</i></li> <li>• <i>Students can now check with ease if Moodle is down for everyone.</i></li> <li>• <i>Students with slow internet connection will only need to proceed with the initial large download as opposed to the slow connection every time they wish to access some material.</i></li> <li>• <i>Students that suffer through power outages can still keep up with their course material and assignments offline.</i></li> </ul>	
<p><i>Causes:</i></p> <p><i>Problem:</i></p> <p><i>Moodle often times is unreliable given current living circumstances in Puerto Rico.</i></p> <p><i>Why:</i></p> <p><i>Puerto Rico suffers from frequent power outages.</i></p> <p><i>UPRM has a consistent history of Moodle outages.</i></p> <p><i>Unforeseen circumstances such as problems with Internet Service Providers may affect Moodle's availability.</i></p> <p><i>Users with particularly slow internet may have a hard time accessing moodle.</i></p>	<p><i>Act/Standardize:</i></p> <p><i>Work on a user-friendly interface that students of every department can use.</i></p> <p><i>Think about features that can help the faculty such as professors use the tool as well.</i></p> <p><i>Provide a news corner for students to be up to date with general events concerning UPRM.</i></p> <p><i>Work on ways to efficiently use the storage space available.</i></p>	