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| **Project Title**  *Authendance* |
| **Author:**  *Jungsoo Kim*  *Mihailo Cvetkovic*  **Testers:**  Mihailo Cvetkovic  Jungsoo Kim |
| **Version Number:**  1.0.0  **Change History**   |  |  |  | | --- | --- | --- | | **Date** | **Author** | **Comments** | | 20/04/2020 | Jungsoo Kim | Create document and write criteria and, test strategy. | | 20/04/2020 | Mihailo Cvetkovic | Tested user login features | | 30/04/2020 | Mihailo | Tested QR code scanner | |  |  |  | |  |  |  | |
| **Release Criteria**  *[Set with agreement with the team leader and checking back to the customer if necessary]*  A:Can the user login with their email and password?  B:Can the user reset their password?  C:Can the Teacher create a unique QR code for a lecture?  D:Does the QR code remain if the Teacher taps the home button?  E:Can the Teacher create a lecture?  F:Can the Student authenticate the QR code collectly?  G:Does the app read the QR code?  H:Is the attendance record stored after authentication?  I:Are the buttons responsive to tapping? |
| **Related Documents**   |  |  |  | | --- | --- | --- | | Document Title | Author(s) | Description | | *Project plan* | Team | Clarifies the ultimate purpose of the project and keeps everyone associated with it on track. | | *Design document* | Team | A high-level solution to the problem presented. It is detailed enough that somebody who already understands the problem can go out and code the project without having to make any significant decisions. | | *Requirements document* | Team | Outlines the main functions the end product must have in order to satisfy the customer. | | *Other documents* |  |  | |  |  |  | |  |  |  | |
| **Test Strategy:**  *[In this section provide an overview of what the approach to testing is. In particular what the focus is around white box/black box, unit testing etc. Justify why you are taking this approach.]*   * Black box testing   Our team chose Black box testing as a test approach. Black box testing is used to examine the fundamental aspects of the system without the internal logical structure of the code. Although our project methodology is Scrum, our team divided the role like traditional development process. That means tester may not participate to development. Thus, there might be lack of knowledge of code for tester. Black box testing does not need access to source code, performed using UI automation tools. This will solve the problem that may come from knowledge of code. Usability testing, a kind of Black box testing, was performed to evaluate the application. |
| **Test Plan:**  *[Each test will be completed must be listed here. Give each test a number]*   |  |  |  | | --- | --- | --- | | Number | Module | Description | | 1 | Login | User should sign in/sign out if required credentials are typed in. | | 2. | Reset | User should reset their password if required credentials are typed in. | | 3. | QR code | Admin/teacher should be able to select a module and generate a unique QR code available for a specific time | | 4. | QR code | Once the teacher leaves the QR code page that specific QR code should be terminated and unable to be used | | 5. | Lecture | Teacher should be able to add their own modules to their  time table | | 6. | QR code | The student should be able to scan the QR code once it is created. | | 7. | Attendance | When the student is marked absent/present the attendance  the attendance should be recorded and should be visible to  both student and teacher | | 8. | User interface | Buttons should be responsive and the overall flow of the  application should be smooth. Nothing to complicated  and never a moment where the user is confused as to  what state they are currently in. | | 9. | Error checking | System should inform user of any malicious attempts and  react appropriately. | | 10. | Problems | Should something unexpected occur the system should  inform the user in some way. | |
| **Test Results Summary:**  *[Put the results of the final test prior to release]*   |  |  |  | | --- | --- | --- | | Type | Count | List of test numbers failed | | A | 0 |  | | B | 1 | System crashes upon denying device access to camera and ticking never ask again | | C | 2 | Email link for reset password not working.  Attendance count does not reset to 0 upon lecturer overwriting attendance. | | D | 1 | Won’t display selected modules on some devices | |

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| **Test Results:**  *[Each run of the tests should generate a new page]*   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | Number | Test Implemented by | Test Completed by | Date of completion | Success/failure | Description (if failure) | | 1 | Jungsoo | Mihailo | 20/04/2020 | Success |  | | 2 | Jungsoo | Mihailo | 20/04/2020 | Success |  | | 3 | Jungsoo | Mihailo | 27/04/2020 | Success? | Dropdown list is  faulty | | 4 | Jungsoo | Mihailo | 29/04/2020 | Success? | QR code can be  distributed by  students | | 5 | Jungsoo | Mihailo | 29/04/2020 | Failure | Feature not  implemented | | 6 | Jungsoo | Mihailo | 01/05/2020 | Success |  | | 7 | Jungsoo | Mihailo | 04/05/2020 | Success |  | | 8 | Jungsoo | Mihailo | 04/05/2020 | Success |  | | 9 | Mihailo | Mihailo | 05/05/2020 | Success | Error message not  always related to  actual problem | | 10 | Mihailo | Mihailo | 05/05/2020 | Success | System limits  malicious attempts | |