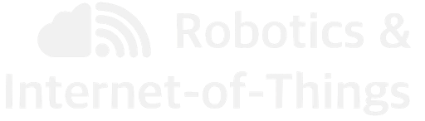


WEB DEVELOPMENT PROJECT: RIOTU LAB

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| **Description:** RIOTU website is built for web development project to meet Dr.Anis’s requirements for his RIOTU lab. RIOTU project goal is to Become a reference where researchers with great ambitions gather and allow them to share their researches related to IoT to help RIOTU lab and its community grow larger. The website shall display all of the important information related to RIOTU lab from latest news, core services, lab’s projects, news “how we work”, recent blog post and much more. For instance, latest news is responsible of showing the user latest activities that happened in RIOTU lab.  **Potential customers:**  -Students who are interested to learn more about IoT or who wants to join RIOTU lab.  -researchers: People who are in the field of IoT and did researches and are interested in expanding their knowledge about it.  -Companies: Any company that’s interested in conducting a project with RIOTU lab can just visit the website and see their achievements. Time line: **Six meetings were conducted.**  **First meeting:** We discussed on what the “idea” that we wanted to do a website on about. We brainstormed a lot of ideas from doing website for hospitals, shopping site, job search engine, etc.. And then Amjad suggested to ask Dr.Anis about the project. While discussing with him Dr.Anis requested from our group to do a website for him based on his requirements. We found that this is a great opportunity for us to not only do a website for the project but also look further into future and experience on how real website really are done specially that our website will meet Dr.Anis’s high standards.  **Second meeting:** we constructed a way to connect our code to be updated automatically through “Github desktop” and started discussing on how to do the website’s design from colors, layout, entities, etc.. Then did some HTML and CSS.  **Third meeting:** continued on doing more HTML, CSS, in addition to javascript and Bootstrap.  **Fourth meeting:** we started working on the DB and how to link it. Here where we faced few problems on how to link the DB to the code and the website.  **Fifth meeting:** editing and updating small changes on the website.  **Sixth meeting:** writing down the report. |

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| **Problems that were faced in this project:**  **The first obstacle** that was on our path is on how to share the code between the group members since we were always editing and changing the code while working. The problem was solved through downloading “github desktop” as this application allow us to update the code with a press of a button.  **The next problem** that we faced was how do we synchronize our code and when to update since when two people for an example work on different pages we need to know who should update fist the old version of the code with the least edits. Solution: Github desktop helped to synchronize the code between us and help our code to be updated throughout the project.  **Another problem** that we faced was when we linked the DB to the website the website changed due to the data taking extra space and that led to some changes in the layout of the website. Solution: we had to re-edit the whole section of every area that used data from the DB.  **The last challenge** we faced was on how we can “CRUD” from the website and from the website to the DB itself instead of editing it through SQL itsself.  **Explanation of DB:**  Two Tables:  Members Table:  **Name**: name of the member, **varchar(30) NOT NULL (PrimaryKey).**  **Position**: their academic position, **varchar(30) DEFAULT NULL.**  **Description**: their description on themselves, **varchar(250) DEFAULT NULL.**  **Location**: where they live, **varchar(250) DEFAULT NULL.**  **phone** **No.**: their phone number**, varchar(20) DEFAULT 'N/A'**  **Email**: their email**, varchar(30) DEFAULT 'N/A'**  **Faceboook**: their facebook account link, **varchar(150) DEFAULT NULL.**  **website**: some members have websites of their own, this one contains the link, **varchar(150) DEFAULT NULL.**  **Linkedin**: their linkedin account link, **varchar(150) DEFAULT NULL.**  **Twitter**: their twitter account link, **varchar(150) DEFAULT NULL.**  **memberType:**There are four types of members: Senior researchers, research assistants, postdoc and visiting PhD student, **varchar(50) NOT NULL.**  **Publication:**  Title: title of the research  Authors: the writers of the research.  Publisher: the ones who published the research.  Date: date of research. Use Case Diagram:Code explanation:  * **Some html explanation:**  1. **Header section:**   Text  Description automatically generated   1. **Menu Bar section:**   Text  Description automatically generated   1. **Contact section:**   **Text  Description automatically generated**   * **Some PHP explanation:**  1. **Login page:**   Text  Description automatically generated   1. **Logout:**   **Text  Description automatically generated**   1. **Connecting Database:**   **Text  Description automatically generated**   1. **Link DB to code and extract data from it:**   **Text  Description automatically generated**  **Text  Description automatically generated**    The preview of how the data will appear :  Graphical user interface, website  Description automatically generated   1. **Reset password:**   **Text  Description automatically generated**   1. **Register page:**   **Text  Description automatically generated**   * **Some java script code:**  1. **Swap contents:**   **(we had used JS to swap between two divs that has serval projects)**  **Text  Description automatically generated**  **First content:**  **Graphical user interface, text  Description automatically generated**  **Swapped content :**  **Graphical user interface, text, application, chat or text message  Description automatically generated**  Wireframe:  **Graphical user interface  Description automatically generated** |