Project Report

On

RAISS LAB WEBSITE

Research in AI, IoT and Software Security

Submitted to

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1. Executive Summary:

Research in AI, IoT and Software Security (RAISS) lab website is the lab website of the computer science and engineering department of JUST. Admin panel of this lab has initiated to automate all operations and functionalities of this lab.

Lab automation is an initiative to provide an integrated software system to connect all the students (Undergraduate, Graduate and Postgraduate) and teachers of this lab.

The target of the software is to provide a user-friendly interface through that share the lab research, project, news, students and teacher's profile.

2. Introduction

The lab automation process continues to evolve and is becoming increasingly sophisticated and complex. It is diverse systems are seldom clones as dictated by the specific needs of various laboratories. It is interdependent systems must interface with electronic and mechanical components, other systems, and human beings. It will not go away individual laboratory automation. Projects are only steps in a continuing process of renewal, growth, and integration.

3. Area of the study

- Available existing software functionalities with limitations
- Available existing hardware, server capacity and functionalities with limitations
- Availability of expert and experience human resource
- Analysis of different institutional lab website
- Expected modification, upgradation, design and development strategy

4. Goals

Main goal of this website is showing the lab activity and news of research, project and students and teachers profile sharing. In addition, others institutional person can see this lab curriculum and their research, project, fund and student's profile.

5. Objective

To automated the current manual lab activity and share the lab resources to the online for others. The students under the lab can easily share their research and project activity, news etc. Teachers

can easily see the student's upgradation and guide their through the website. As a result, reduce the time to give the upgradation research or project of the students.

6. Specific Outcomes

- A project report will be prepared by verifying and analyzing the current situation regarding digitalization of the lab through survey and interviews.
- Through this survey an integrated lab automation hardware software architecture will be created.
- How many modules will be in this software, what will be the life cycle of the features of different modules, a graphical interface will be created.
- Details of what kinds of budget, manpower and training will be required to create, manage and operate this solution will be prepared.

7. Software Home Page and Feature

7.1 Home Page

Our research focuses on machine learning machine Learning on Internet of Things, Smart Agriculture and Software Security.

Machine Learning on Networks

Current scientific and social endeavors are generating data that can be modeled as graphs: high-throughput biological experiments, screening of chemical compounds, social networks, ecological networks and food-webs, database schemas and ontologies. Most current research concentrates on problems where the graph structure is inherently static. But networks in the real world are dynamic with a wide range of temporal changes: while the topology of networks such as social networks and transportation networks undergoes gradual change (or evolution), the content (information flow, annotations) changes more rapidly. Mining and analysis of these annotated and dynamic graphs is crucial for advancing the state of scientific research, accurate modeling and analysis, and engineering of new systems. Our goal is to develop a set of machine learning, analysis, and modeling methods for such networks.

7.2 Feature

ADMIN PANEL

Add Post

Edit Post

Add People

Edit People

Add Software Description

USER PANEL

Send Message

Can see the post

Can see the People

Can see the Software Description

8. Pages of Software

8.1 Home Page

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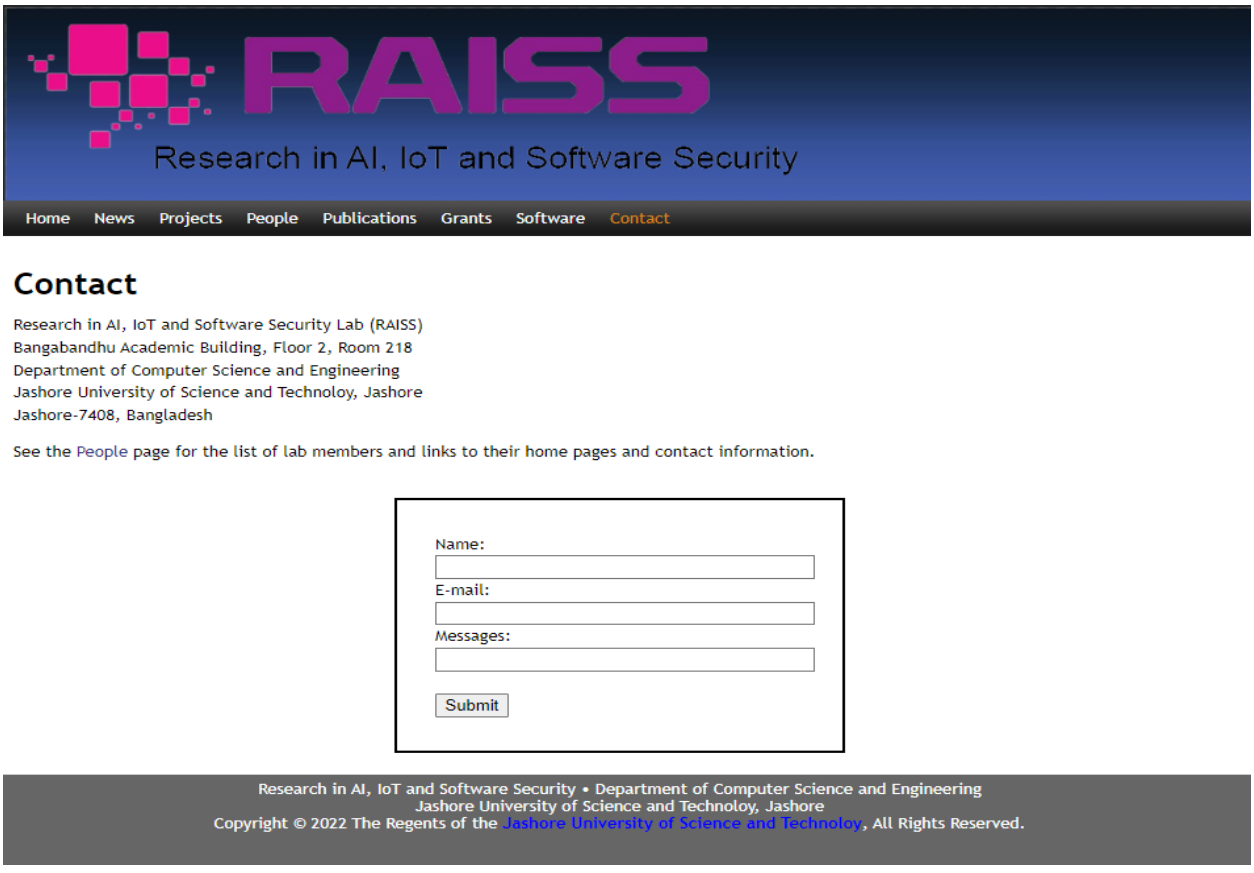
8.2 People Page

People

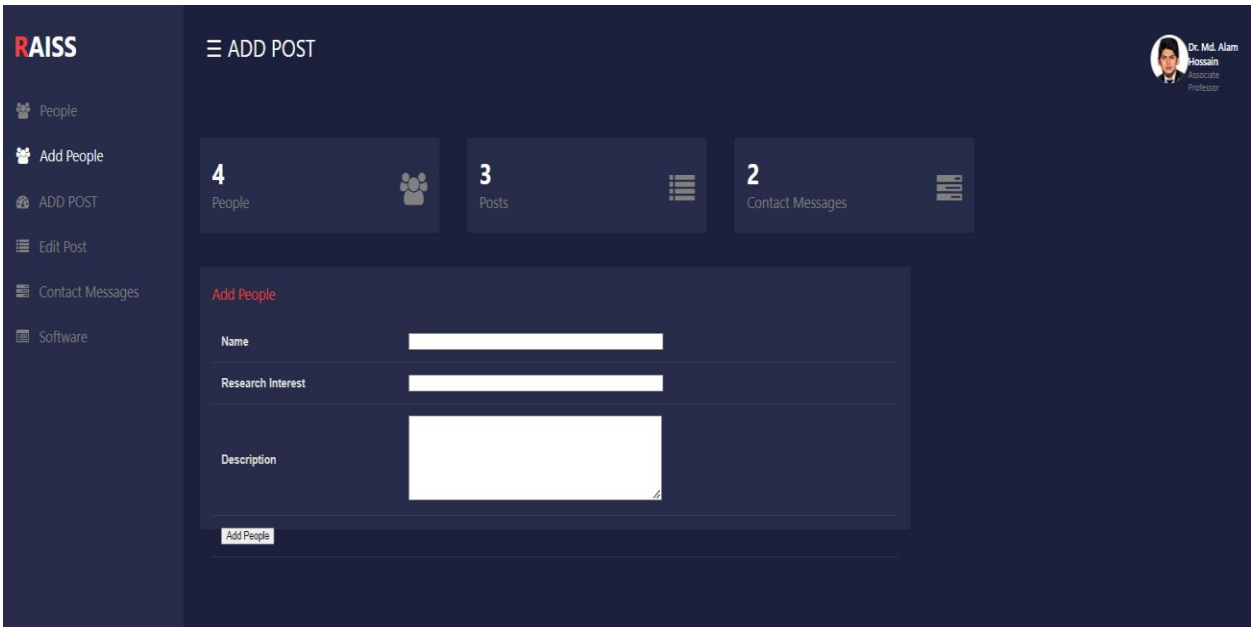
8.3 Software Page

8.4 Contact Page

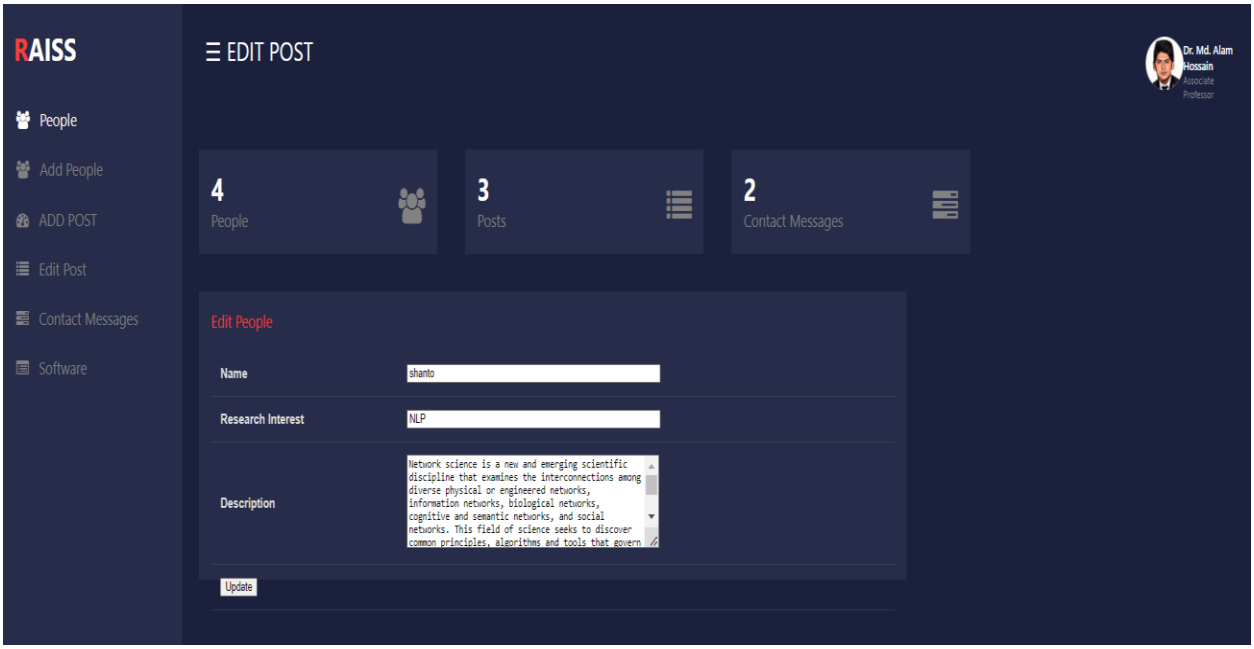


9. Dashboard

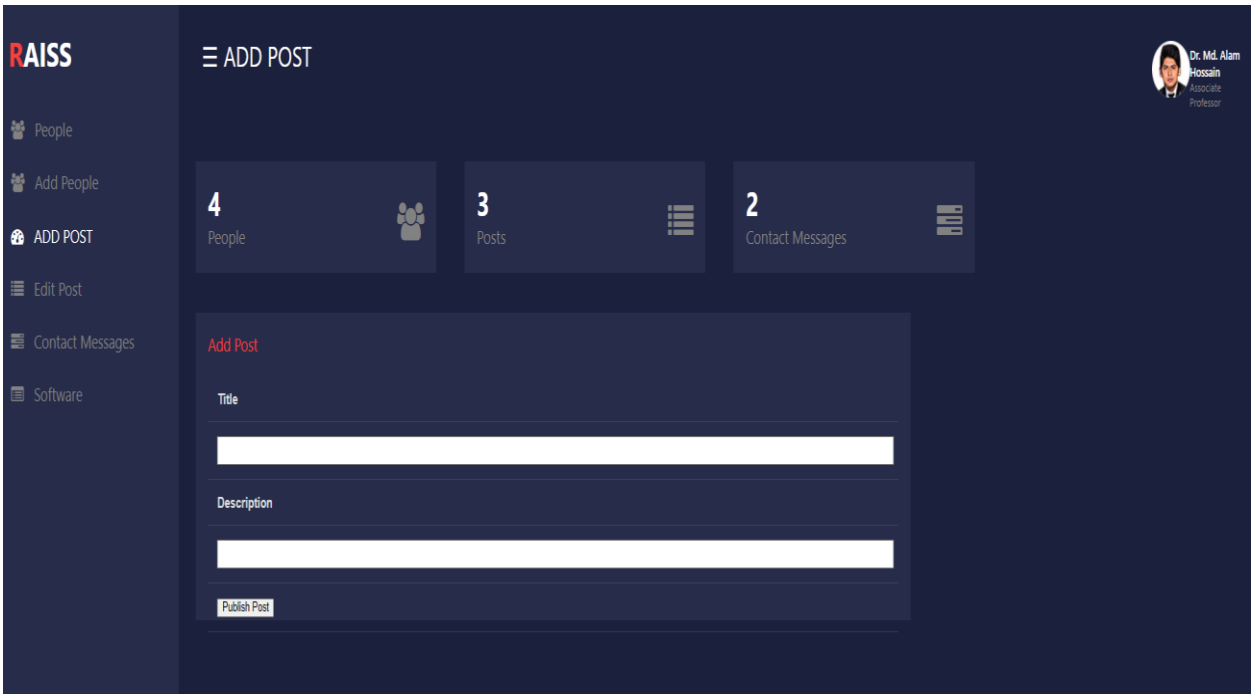
9.1 Add People



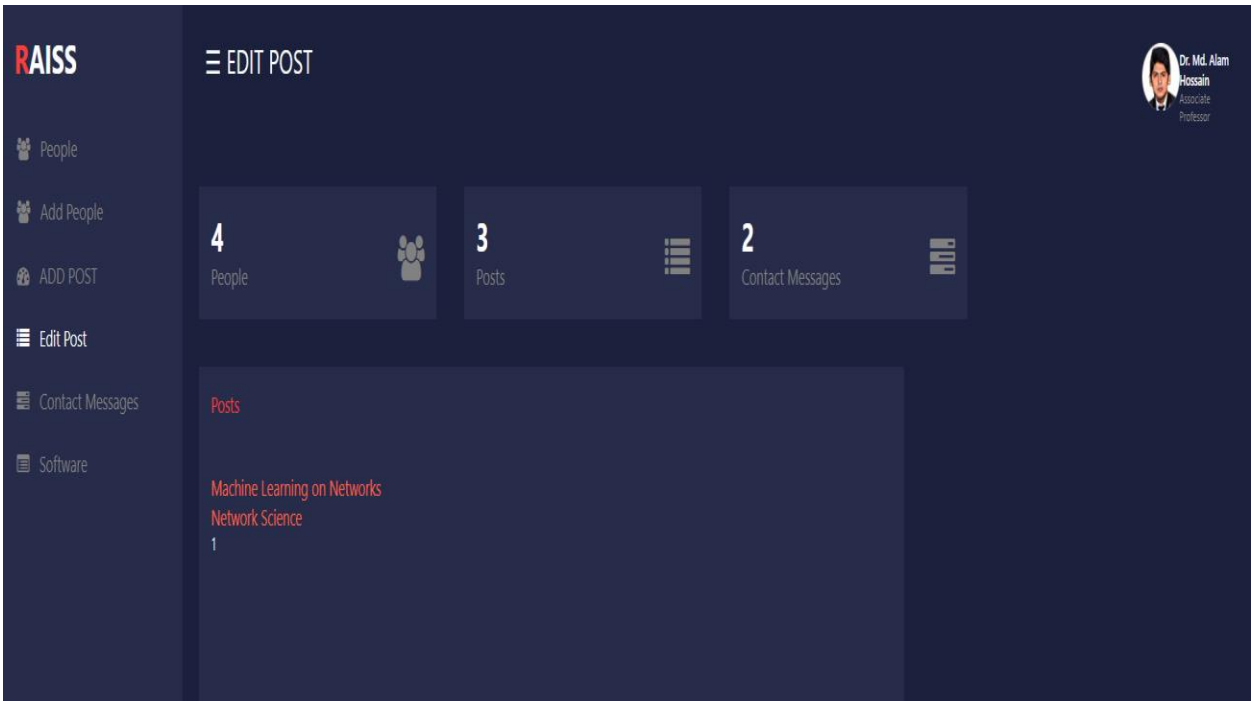
9.2 Edit People



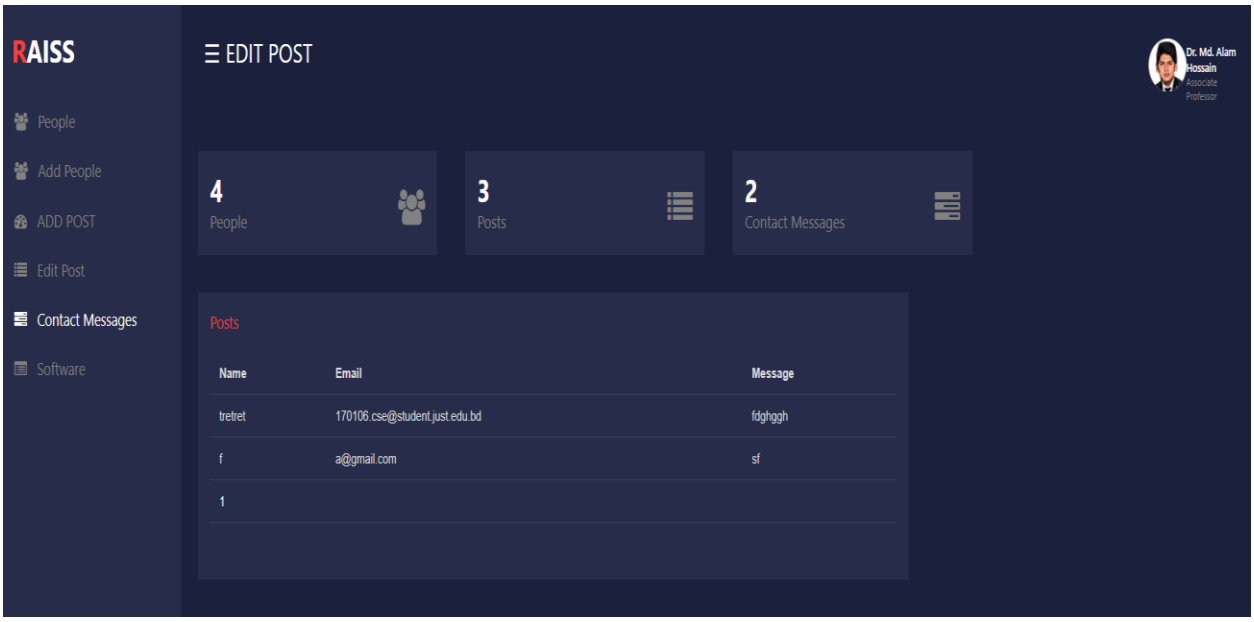
9.3 ADD POST



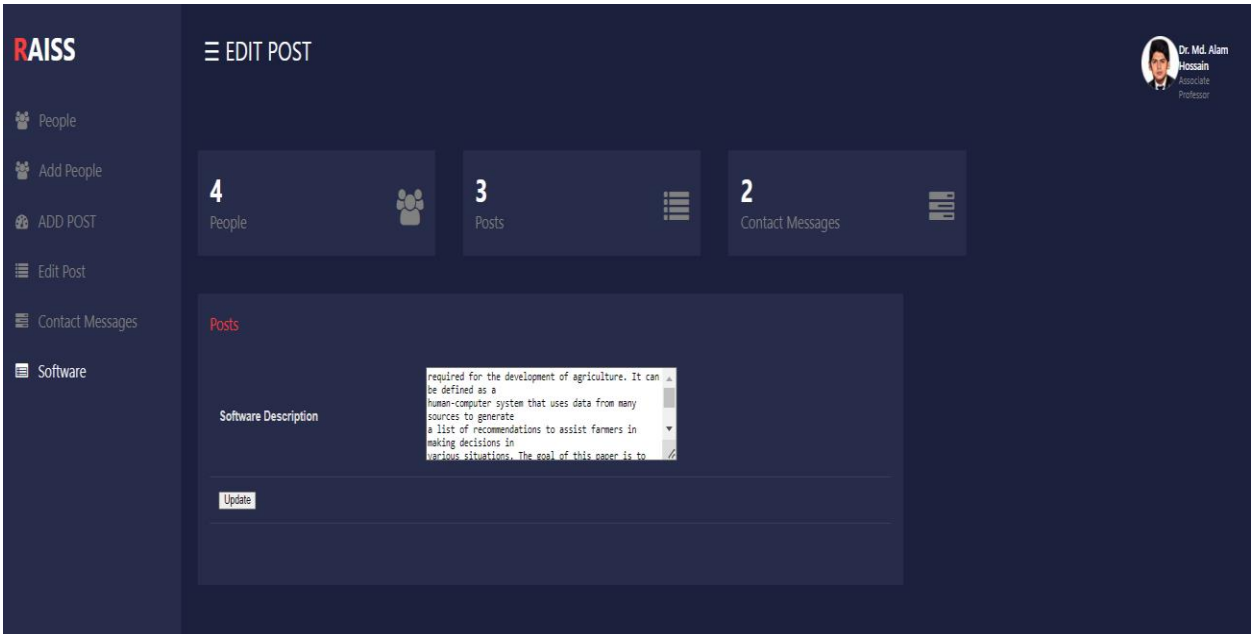
9.4 Edit POST



9.5 Contact Message



9.6 Software



10 Conclusion

As we have seen that this software can reduce the hassle between the communication between teachers and students, this application can be used vastly.