

# “E-Resource Website For RVCE Using Soa”

**Ashish Bisht<sup>1</sup>, Mohan N Pujari<sup>2</sup>, Divya T L<sup>3</sup>**

<sup>1</sup>Student, Department of MCA, RV College of Engineering, Bengaluru, India

<sup>2</sup>Student, Department of MCA, RV College of Engineering, Bengaluru, India

<sup>3</sup>Assistant Professor, Department of MCA, RV College of Engineering, Bengaluru, India

**Abstract:** E- Resource for RVCE using SOA is a project which aims in developing a website system to provide all the resources to the students of MCA-RVCE. This project has many features which are generally not available in normal resource website like facility of user login and a facility of admin login. It also has a facility of admin login through which the admin can monitor the whole system and also given CRUD where the admin can upload all the previous year question papers and other study materials. It also has facility where admin and user can see how many downloads has been made for a file present in the database, it makes the user easy to know the favorite file that has been download more number of time. It also have validation that only the user which has been added to database can only access the website. It has also a facility where student after logging in their accounts can see list of books available and its total number of downloads which has been done by other students and also the students can see all the new available resources that has been added. The admin after logging into his account can update or delete various resources such as previous year question paper, IEEE journals and other resources. Overall, this project of ours is being developed to help the students as well as staff of MCA-RVCE to get the resources online outside of RVCE campus which is the best way possible when the classes are going online for students to get access to necessary resources from our website and it also reduce the human efforts.

**Keywords:** E-resources, Website, College, Resource upload.

## I. INTRODUCTION

Every website needs to maintain Databases of the students and data related to the subjects and textbooks, Journal's for sufficient use of student, in rvce college website few of the resources data can't be assessed by outside of the college premises, and only can be accessed with the college Wi-Fi connectivity, which can be only done in college premises. As we are working specifically on the previous year data which can be helpful for the students who are outside of college premises also for the upcoming juniors who can make use this website. It also has facility where admin and user can see how many downloads has been made for a file present in the database, it makes the user easy to know the favorite file that has been download more number of time. It also have validation that only the user which has been added to database can only access the website. It has also a facility where student after logging in their accounts can see list of books available and its total number of downloads which has been done by other students and also the students can see all the new available resources that has been added. The admin after logging into his account can update or delete various resources such as previous year question paper, IEEE journals and other resources. Overall, this project of ours is being developed to help the students as well as staff of MCA-RVCE to get the resources online outside of RVCE campus which is the best way possible when the classes are going online for students to get access to necessary resources from our website and it also reduce the human effort.

## II. RELATED WORKS

To create a e-Resource website for upcoming MCA students of RVCE, since there is a lack of Resources when the classes are online and not in college campus.[15] In rvce college website few of the resources data can't be assessed by outside of the college premises, and only can be accessed with the college Wi-Fi connectivity, which can be only done in college premises. Working specifically on the previous year resources which can be helpful for the rvce mca students who are residing outside of college premises. Admin provide access to rvce mca students based on the mail-id provided by mca department. Students who stay outside the college premises, face issues while accessing previous year question papers, IEEE journals, study material.

Students who stay outside the college premises, face issues while accessing previous year question papers, IEEE journals, study material. Currently all the resources like previous year question papers, IEEE journals, study material are only available when the student is student is connected to college Network.

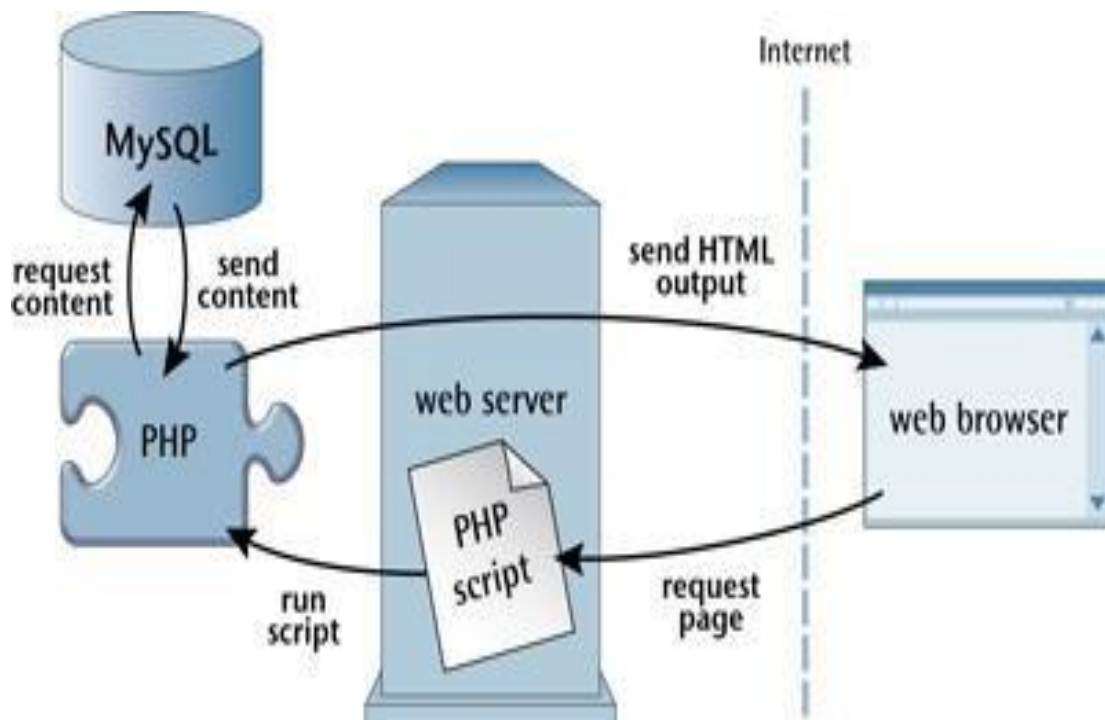
To overcome this issue, A website is developed through which students will be able to access the resources like previous

year question papers, IEEE journals, study material which is provided by admin.

### III. PROPOSED WORK

#### A. Methodology adopted in the proposed system

- (1) Admin has to first enter the username and password, and login to the app. Admin adds detailed information of the books like Id, name, category, description, : The details can be viewed by customers
- (2) Interface to enter Email and Password. Validating valid student username and password, login into Home page of RVCE website.
- (3) Admin providing resources, uploading the resources on the database, displaying the resources on the user interface.
- (4) Interface for downloading resources, fetching the file from Database to the download module. Displaying the downloaded file to the Student.



**Fig 1. Block diagram of the system**

#### B. Accepting and providing details to the students

Accepting the students with the valid email ids provided by the college. All the ID's collected from the college will be added to the database by using which the student can access to the resources like previous year question paper, journals and study materials.

#### C. Resource extraction

In the Authentication module the user has to provide the RVCE mail id and accurate password to login into the website, also the students who are not registered already, those students can get registered through the options given and enter the correct details which is required in the registration form. Once they get registered, the details of the students will be saved in the database and next time student can sign in directly through his mail id and password.

The User Interface module provides the interface for selecting the particular department i.e., MCA, and also, he can get through different Events happening in the college with image, and the student has the option for logout through which he can sign-out from the Home page of RVCE between redirect the student to login page.

The upload module deals with admin uploading of Resources in the certain format, and this module is only accessible to the admin through which Admin can upload the resources like previous year question papers, IEEE journals, study material, also Check option is available to look after admin uploads the data to database.

The Download module is accessible to students, with many more options like previous year question papers, IEEE journals, study material, Resources are available for download in pdf format.

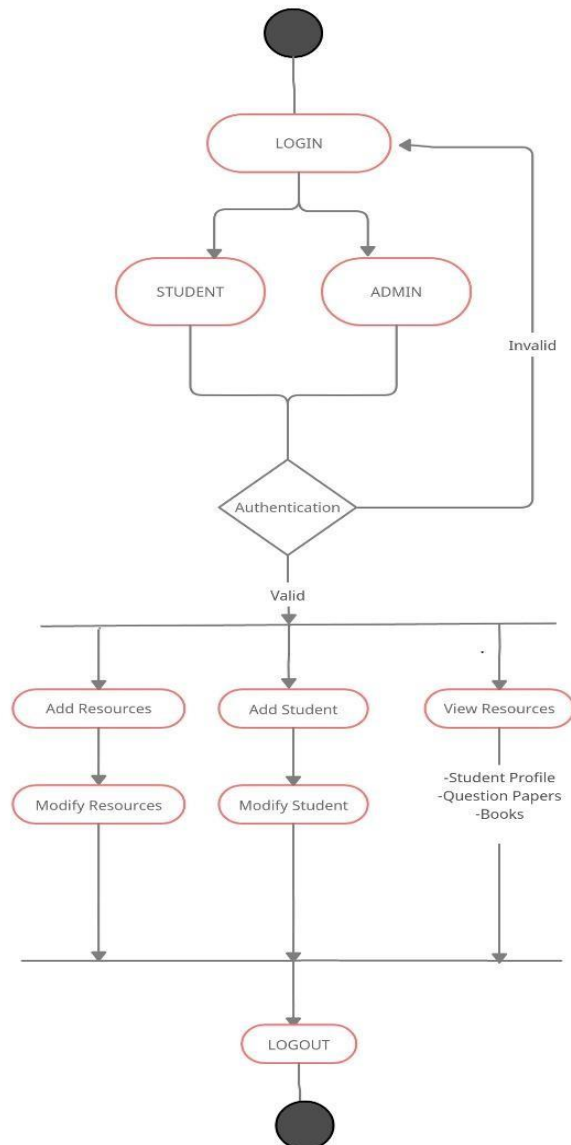


Fig 2. Flow diagram of the system

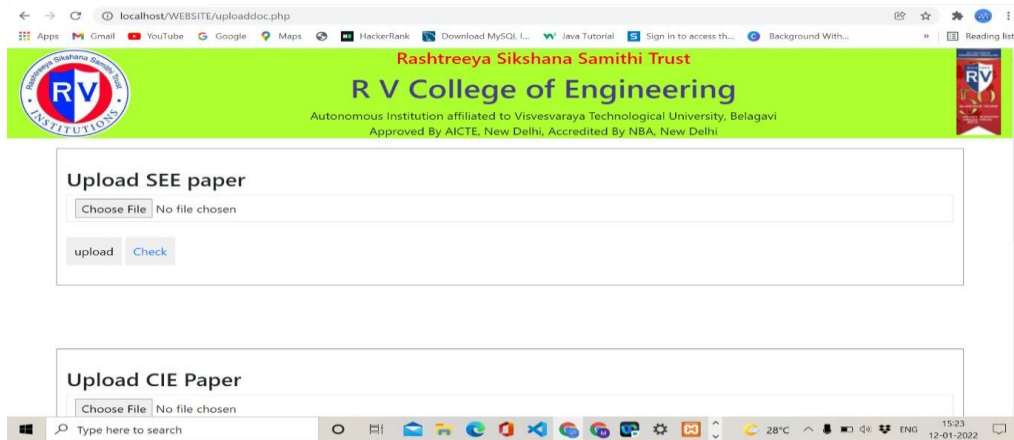
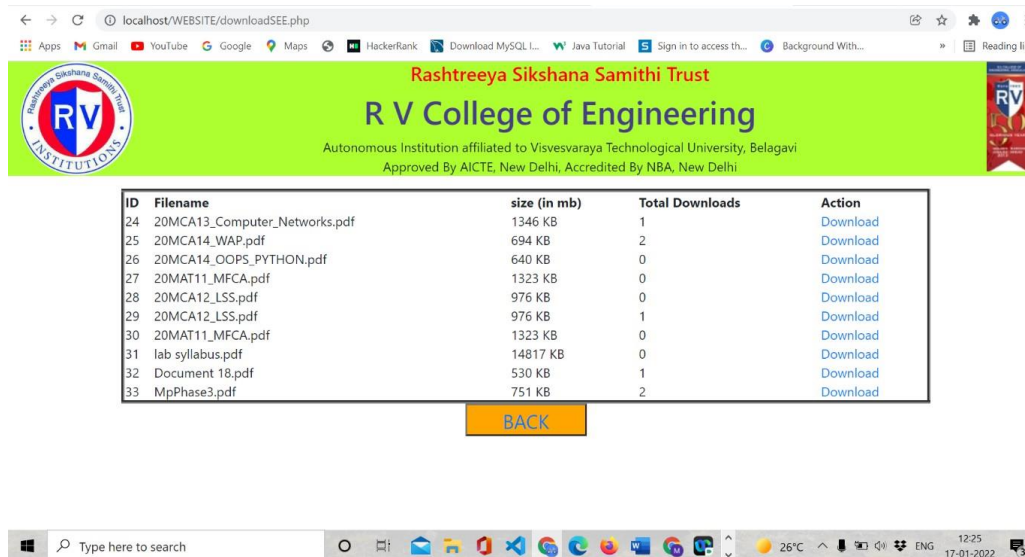
**D. Features which makes the proposed system different from the existing ones**

1. Presently the college's resources provides the resources only when the student is present in the college campus/network.
2. A website is created with the user interface where the students can now access the details even when the student is not present inside the college network/campus.
3. After logging in the student can access the e-resources provided by the admin in the website.

**IV. EXPERIMENTAL RESULTS**

The tests were performed under various conditions including:

1. Whether the admin is able to upload the file to the website.
2. Students can see the uploaded documents in the website.
3. With the driver's head tilted.

**A. Test case 1 : Uploading of the document by admin****Fig 3. Page where the admin can upload the documents.****Fig 4. Web page where the student is able to access the resources uploaded by admin.**

**Result:** From fig 3 and fig 4 above, it is clear that the admin can upload the resources to the website and students can access the resources.

**CONCLUSION**

In this study, available resource documents are verified and uploaded. This project contains various resources which has to be updated by the admin in the website. Students should be able to download the resources uploaded by the admin for their study purpose. Student's problem will be solved of not able to access the previous year question papers and other resources. As the report suggests the main objective was to provide the students of MCA department of RVCE only should be able to register/login into the website and take benefits out of it, which was accomplished successfully in this website. Once the whole project is developed and deployed, the upcoming students of MCA department of RVCE will be able to access the resources from the comfort of their home during lockdowns, which was previously possible only when the student is present in the college/Campus.

**ACKNOWLEDGEMENT**

We express our sincere thanks to Dr. Divya T L, Assistant Professor, Department of MCA, R.V. College of Engineering for her constant encouragement, support and guidance during the research work.

**REFERENCES**

- [1] Kumari, Punam, and Rainu Nandal. "A Research Paper On Website Development Optimization Using Xampp/PHP." *International Journal of Advanced Research in Computer Science* (2017), Vol 8.5 pp1231-1235.
- [2] Yang, J.H., Mao, Z.H., Tijerina, L., Pilutti, T., Coughlin, J.F., Feron, E. (2009). Detection of driver fatigue caused by sleep deprivation. *IEEE Transactions on Systems, Man, and Cybernetics -Part A: Systems and Humans*, 39(4): 694-705.
- [3] Dragoni N, Giallorenzo S, Lafuente AL, Mazzara M, Montesi F, Mustafin R, Safina L. Microservices: yesterday, today, and tomorrow. *Present and ulterior software engineering*. 2017: pp:195-216
- [4] Mardi, Z., Ashtiani, S.N., Mikaili, M. (2011). EEG-based drowsiness detection for safe driving using chaotic features and statistical tests. *Journal of Medical Signals And Sensors*, 1(2): 130-137. [5] Macaulay, Michael. *Introduction to web interaction design: With HTML and CSS*. Chapman and Hall/CRC, 2017. eBook ISBN 9781315692333.
- [6] Satoto, K.I., Isnanto, R.R., Kridalukmana, R. and Martono, K.T., 2016, October. Optimizing MySQL database system on information systems research, publications and community service. In *2016 3 rd International Conference on Information Technology, Computer, and Electrical Engineering (ICITACEE)* (pp. 1-5).
- [7] Surjandari, I., Rachman, A., Panjaitan, Y. A. B., & Rosyidah, A. (2017, October), Development of theses categorization system search engine using PHP and MySQL. In *2017 International Conference on Information Technology Systems and Innovation (ICITSI), IEEE*, (pp. 194-199). e-Resource website for rvce using SOA Dec 2021 Department of MCA, RVCE Page 66
- [8] Pirnau, C. and Botezatu, M.A., 2016. Service-Oriented Architecture (SOA) and Web Services. *Database Systems Journal BOARD*, p.32.
- [9] Korotun, Olha, Tetiana Vakaliuk, and Viacheslav Oleshko. "Development of a webbased system of automatic content retrieval database." Available at SSRN 3719834 (2020).
- [10] Lopez, Daniel Andres Pelaez. "Requirement Analysis for Your Full-Stack Web Application." *Full-Stack Web Development with Jakarta EE and Vue.js*. Apress, Berkeley, CA, 2021. 111-142. [11] Laaziri, M., Benmoussa, K., Khouilji, S. and Kerkeb, M.L. A Comparative study of PHP frameworks performance. *Procedia Manufacturing*, 32, (2019), pp.864-871
- [12] Shadija, Dharmendra, Mo Rezai, and Richard Hill. "Towards an understanding of microservices. In *2017 23rd International Conference on Automation and Computing (ICAC), IEEE*, 2017, pp. 1-6.