

 <b>UTM</b> <small>UNIVERSITI TEKNOLOGI MALAYSIA</small> <small>RESEARCH UNIVERSITY</small>	<b>SCHOOL OF COMPUTING</b> <b>FACULTY OF ENGINEERING</b> <b>UNIVERSITI TEKNOLOGI MALAYSIA</b>
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## PSM 1 (SCSx 3032) PROJECT PROPOSAL FORM

Session/Semester: .....2022/2023 - 2.....

**Instruction:** Please complete and submit this form to the departmental PSM committee. The proposal must be reviewed by the supervisor before submission.

### SECTION A: STUDENT INFORMATION

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Year/Course	<b>3SECJ</b>		
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**Proposal No.** 1 *(Please follow your preference. Proposal No. 1 – the highest priority, followed by Proposal No. 2 Each student may propose a maximum of 2 topics).*

### SECTION B: PROJECT DETAILS

<b>Supervisor Name:</b>	Dr Mohd Shahizan bin Othman
<b>Project Title:</b>	Research grant finder for staffs of Faculty of Computing

### Problem Background and Proposed Solution:

A grant is financial assistance that is provided to work on research or a project through a competitive process. A student doing research in something related to the welfare of science and humanity can have a grant allocated by the supervisor. A grant can be provided by funding organizations, such as government agencies, private foundations, and non-profit organizations. For applying for a grant, a person has to look for probable grants that he can get from the website of these organizations. UTM is one of the leading research universities in the world. The lecturers and the professors need a huge amount of funding for research purposes or for developing a prospective system. It is very tough for them to search for grants from this huge amount of websites according to the area of interest and the deadline. So, it causes hindrance in the regular process of research and development of the university.

### Proposed Solution:

The Research Grant Finder is a web application that automates the process of finding research grants from various sources. The application will use web scraping techniques to

extract information about research grants from websites of funding organizations.

The application will allow users to specify their research interests and funding preferences, such as grant amount, grant duration, and application deadline. Based on the user's input, the application will search the websites of funding organizations and extract relevant information about available grants. The extracted information will include the grant title, funding organization, eligibility criteria, application requirements, and application deadline.

The application will present the extracted information in a user-friendly interface, allowing users to filter and sort the results based on their preferences. The application will also provide a notification system that alerts users about upcoming grant deadlines.

The project will involve designing and implementing a web scraper that can extract data from various websites. The application will also require a backend database to store the extracted data and a frontend interface to display the results to users.

### Objectives:

1. To study the requirements of the Research Grant Finder system in terms of its usability and functionality.
2. To propose the design of the system by selecting the appropriate design pattern, to design the database structure and the user interface.
3. To develop a system that meets all the requirements of the different category of users and that follows the selected design pattern and models.
4. To test the system using software testing tools to check if the system is able to carry out the functionalities and meet the requirements of the stakeholder.

### Scopes:

1. The system will be a web-based system.
2. It will have login authentication.
3. The grant information will be extracted for educational purposes only.
4. The grant information will only be provided to authenticated users of the Faculty of Computing only.
5. The system will use web scrapping based on Python libraries.
6. An individual can only see his grant statistics related.

### Project Requirements:

Software : .....Visual Studio Code, Github, Ms Excel.....

Hardware : .....Computer, Keyboard.....

Technology/Technique/  
Method/Algorithm : .....Python, JavaScript, SQL/MongoDB .....

Network Elements : ...WIFI, Cellular Data.....

Security Elements : .....None.....

**Project Type:** *(Please tick one)*

[ ☒ ] System Development

[ ] Research

**Project Area:**

Area : .....Web Development.....

(e.g.: Security – Cryptography)

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**SECTION C: STUDENT ACKNOWLEDGEMENT**

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I confirm that this project is:

[ ] My own idea

[ ☒ ] Proposed by the supervisor.....Mohd Shahizan Othman....

Date: .....5/4/23.....

Student Signature:



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**SECTION D: SUPERVISOR ACKNOWLEDGEMENT**

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I, Mohd Shahizan Othman ..... confirm that I have reviewed this student's project proposal and therefore agree for the proposal to be submitted for evaluation.

Date : 06 April 2023 .....

Signature

:  .....

Official Stamp

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**SECTION E: EVALUATION PANEL APPROVAL**

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**Outcome:**

- [ ] Full Approval  
 [ ] Conditional Approval (Minor)  
 [ ] Conditional Approval (Major)  
 [ ] Fail

**Notes** (Please state reasons for conditional or failed approval)

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 .....

**Evaluation Panel:**

1. ....

2. ....

Date: .....

Signature: .....

Name: .....

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**SECTION F: FOR FACULTY COMMITTEE ONLY**

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Date Received: .....

Signature : .....(Official Stamp)