SCDF X IBM Lifesavers' Innovation Challenge: Call for Code 2021

Submission Guidelines

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Competition Brief

The SCDF X IBM Lifesavers' Innovation Challenge: Call for Code 2021 invites participants to think out of the box and craft creative solutions that address our problem statement. We sincerely hope that this case competition will be a fruitful and enjoyable experience for all.

Given that coding is a highly technical skills that may be daunting to some individuals, this competition will place a heavier emphasis on the quality of your solutions rather than the performance of your code. We are looking out for innovative ideas that can enhance SCDF's effectiveness and efficiency. Hence, you **will not** be penalised if your code does not function smoothly. Most importantly, regardless of its actual performance, your code should highlight the ingenious use of technology and aid in the portrayal of your proposed solutions.

Your submission would be judged based on creativity, analysis of the problem and implementation of strategies. Please read through the guidelines thoroughly to ensure smooth submission of your code and video pitch.

To spice up your experience, we also lined up exciting mini games for you along the way. Participate in these mini games and stand a chance to win exclusive gift packs!

Video Pitch Guidelines

Your video pitch should serve to clearly showcase your solutions and explain how technology is leveraged on to tackle the issue at hand. Feel free to explore unconventional modes of presentation for your pitch. Your video pitch should not exceed 1 minute.

Your video pitch should entail the following components:

a. **Summary, Situational Analysis and Key Issue**
Critical examination of the problem statement, including a situational analysis and a systematic dissection of the key issue.

b. **Strategy and Recommendations**
Succinct description of the justification, feasibility and impact of the strategy, incorporating the use of IBM Cloud and coding capabilities.

c. **Implementation and Plan of Action**
Realistic implementation of solutions with possible challenges and mitigation measures.

d. **Conclusion**
Summary of how the strategy would address the given problem statement.
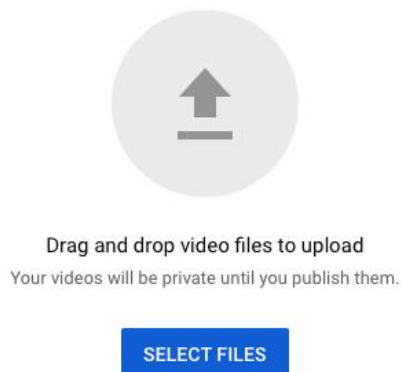
Video Pitch Submission

Once your video pitch is ready for submission, you can upload it onto YouTube.

1. Launch YouTube on your desktop and click on the "Create" icon on the top right-hand corner. You should see the option to upload video.
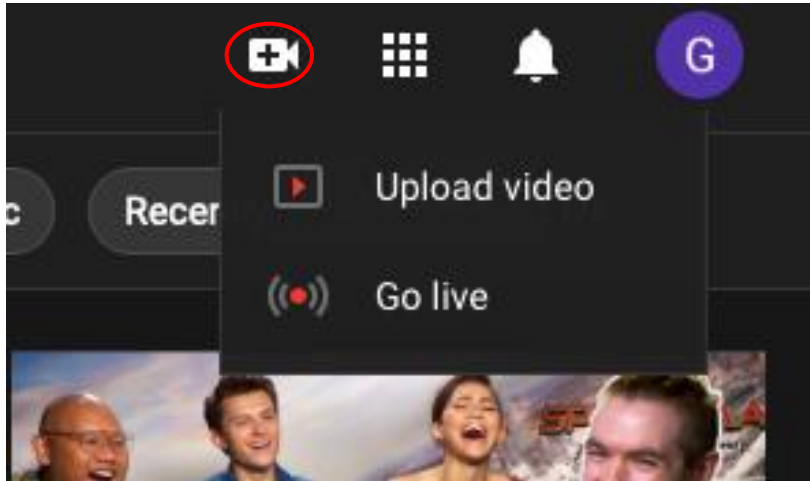
2. Upload your video pitch by either selecting files or drag and drop.

3. After the video is uploaded, please ensure that you complete the following under the Details tab:
   a. Name the video '**Team Name: Solution Name_SCDFXIBM**' (E.g. Lifesaver: Powerman_SCDFXIBM)
   b. Provide a short description of your solution pitch in the description box.
   c. Set a thumbnail, playlist (if applicable) and audience.
   d. Click "Next".

4. There is no need for you to add any video elements, you may proceed to the Visibility tab after checking the details. After which, please complete the following:
   a. Ensure that your video is '**Unlisted**'.
   b. Copy the video link at the bottom left-hand corner you would need it for submission of your video pitch later on.
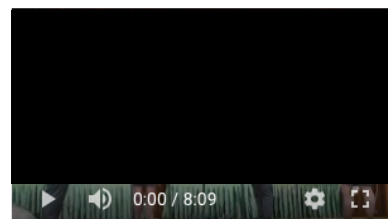
Code Submission Guidelines

To submit your code, you will be using GitHub. The following sections will guide you along the way to create your GitHub repository where you will be storing all your materials for submission. If you are familiar with GitHub, feel free to skip to the "Material for Submission" section.

Getting Started on GitHub

This section will provide you with a detailed guide to set up your GitHub repository.

1. Launch GitHub via https://github.com/
2. Click on the 'Sign up' button on the top right-hand corner to create a GitHub account.
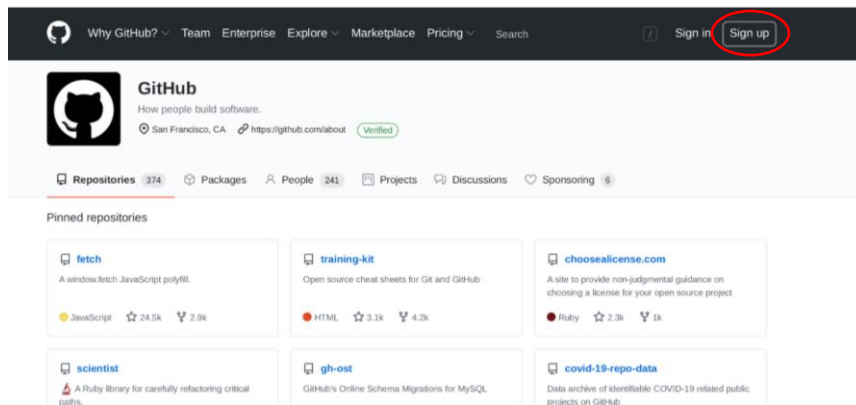
3. Key in your details (Username, Email Address and Password) to create an account.
4. Log in to the email address you provided to verify your account.

Creating a Repository

1. Click on the '+' sign on the top right-hand corner and you will see a dropdown as shown below. Select 'New repository'.
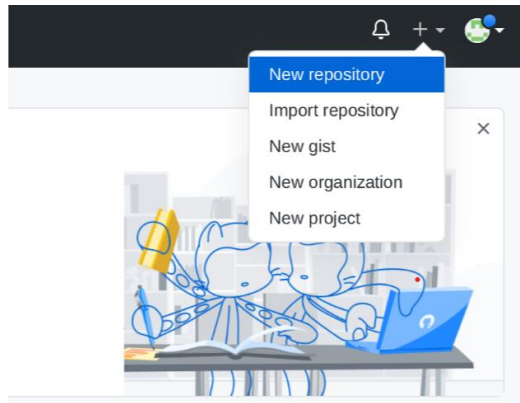
2. Fill in the details accordingly:
   a. Repository name: **TeamName-SolutionName_SCDFXIBM**
   b. Description: Enter a short description of your project.
   c. Select 'Public' to ensure that we can review your materials.
   d. Tick the 'Add a README file' option and proceed to create repository.

Markdown (.md) Files

There are many ways to customise the text within your Markdown files, such as bold, italic, underline, and more. For example, to make your "text" italics, type: *text*. To make your "text" bold, type: **text**

To learn more about customising the text in your Markdown (.md) files, you may access the following links:

a.   http://github.com/adam-p/markdown-here/wiki/markdown-cheatsheet
b.   http://markdownguide.org/cheat-sheet/

With that, you should be able to customise and edit the "README.md" displayed on the front page of your repository.

1.   Click on 'Add file' and you will see more options in the dropdown, select 'Create new file'.
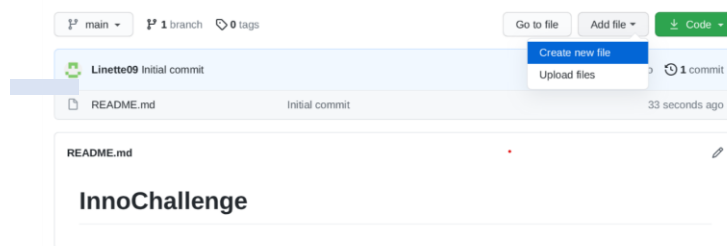
2.   Enter the File Name **including the extension of .md**. Fill in the content of your Markdown file. You may click on 'Preview' to see how your Markdown file will look like as shown below.
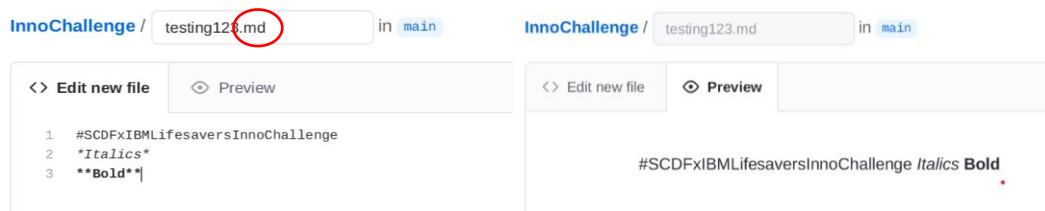
3.   Click on 'Commit new file' to create a new Markdown file.

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Uploading and Organising materials on your Repository
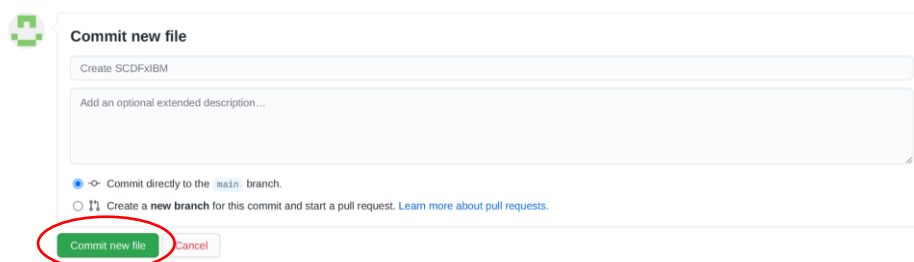
1. Once you are ready to upload files to your repository, click on 'Add file' and you will see a dropdown showing more options. Select 'Upload files.
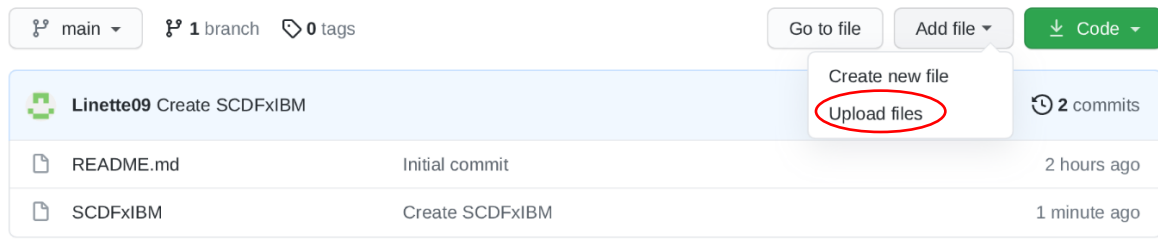
2. Upload your code or relevant materials by either drag and drop or clicking on 'choose your files'.
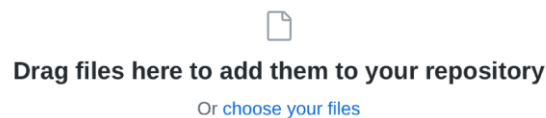
3. To create a folder on GitHub, you must create a new file and type in your desired folder name. Include a "/" behind the folder name. You will notice that your desired folder name will change into a sub directory after you add a "/" behind it.
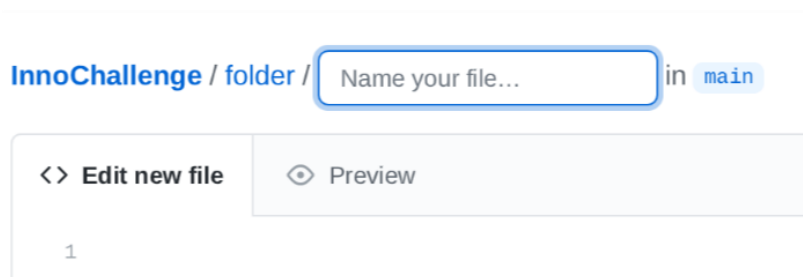
Checklist of Materials to be Uploaded

After completing your project, you will have to upload several materials on to your team's repository. Do ensure that your team's name is reflected on your repository. These are the materials you will have to submit:

1) README.md
   Your README.md should contain:
   Short description of your team members, and team name.
   a) A short description of the problem you are tackling, how technology can help, as well as the idea your team is proposing*
   b) Pitch Video*
   c) The architecture of your proposed solution*
   d) A hyperlink to your detailed solution (Long description of your solution) *
   e) Project Roadmap/ Proposed timeline
   f) Getting started (step-by-step instructions to install the required software and how to run a demo of your solution) *
   g) Running the tests (Explanation and breakdown on how to run tests for the proposed solution)
   h) Live demo (link to an actual working demo/website)
   i) What your team used to build your solution (e.g. IBM Cloud, etc…) *

*Items marked with an asterisk are compulsory

2) Folder that contains your team's codes
   a) Note that you may code in **any language** (e.g. Python, C++, Java Script, etc.)
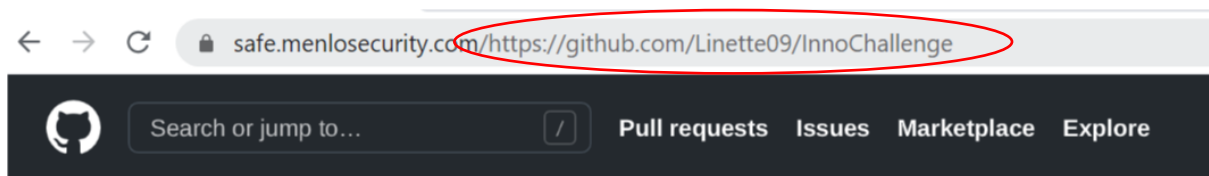
Final Submission of Video Pitch and Code

Now that you have your video uploaded on YouTube and Github repository ready, you will need to submit the respective links.

Video Pitch

Code

1) Copy the links into the submission form at https://go.gov.sg/innochallengesubmission.
   a. The form will require you to provide a short description (250 characters) of your team's solution. This can be the same short description used on YouTube and on GitHub.
   b. This is a team submission, so each team will only have to submit the form **once**.

2) Submit the form.

Congratulations! You have now completed the SCDF X IBM Lifesavers' Innovation Challenge: Call for Code 2021. We will be announcing the top 5 teams in mid-June, stay tuned!

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