

**What is my email address and IRC Nick?**

Email: ravgeetdhillon@gmail.com

IRC Nick: [@ravgeetdhillon:matrix.org](https://matrix.org/#/ravgeetdhillon:matrix.org)

**What is my blog address?**

<https://ravgeetdhillon.github.io/>

**What city and country will I reside in during the summer?**

- City: Amritsar
- Country: India

**What is my academic background, including university, major, and expected or achieved graduation date for any degree I am pursuing?**

- University: Guru Nanak Dev University
- Degree: B.Tech
- Year: 3rd (as on 31-March-2019)
- Expected Graduation Year: 2020
- B.Tech Subject: Computer Science and Engineering

**Who is a possible mentor for the project I am proposing?**

Emmanuele Bassi [@ebassi:matrix.org](https://matrix.org/#/ebassi:matrix.org)

**What is the ultimate goal of my project?**

The ultimate goal of my project is to redesign and redevelop the GTK's official website by providing it a design that follows current trends and content updation that really matters to the users and developers by using modern static site generators.

The project is a major milestone belonging to the release of GTK 4.0.

### **What applications/libraries of GNOME will the proposed work modify or create?**

Based on the conversation on this [issue](#), I have figured out that this project will rebuild the <https://www.gtk.org/> from scratch. It uses way old technologies and design trends of 2000's and hence a newer method of working and deployment will make the new website easy to handle for future updates and changes. This will involve the design rebuilt of current UI, content updation using static site Generators and deployment process through continuous integration.

### **What benefits does my proposed work have for GNOME and its community?**

The current website is woefully out of date. Customers and Developers, who come in search for the apps and documentations on GTK respectively, aren't really impressed at all with the current state of website and it leaves them thinking about the validity of GTK. The first time users of GTK need to know the answers to questions such as what GTK is, how to use it and what will be its output. Presently there is no method of updating the content directly from Gitlab where the site's infrastructure is currently hosted. Also the current website is built using PHP, which leads to vulnerabilities that a malicious user can exploit and create some damage on the server side.

Hence, my aim is to create a content driven website for developers with their skills ranging from beginner to expert. Its main aim would be to provide the up-to-date data regarding GTK. It will focus on elegance and simplicity at the same time by having a great UI/UX. It will provide all the information to the user on What is GTK?, How to get it installed, How to get started?, and many other topics of relevance to the customers and developers. Using various modern Static Site Generators such as Jekyll, the content updation process will be made as simple as possible so that even a novice can point out mistakes and solve them on his own by sending us the pull requests. By using only client side code, the website would be much safer and the loading speed will be enhanced by an extent.

The saying "What you see is what you get" could be molded as "What you see is what we have".

By using the best practices for our website, we will optimize the website for search engines. These steps of redesigning will really improve the customer inflow and satisfaction. A fresh website will provide a breeze of calmness to the customers and developers as well.

### **Why are you the right person to work on this project?**

After reviewing all the tech support needed for the successful completion of this project, I believe that I can provide my services to the GNOME community. Currently I am acting as the Technical Head of Computer Engineering Student Society at our University. I organize workshops, hackathons, tell people about tech, and motivate them to contribute towards Open Software. During this time, I contributed towards many web projects. I have considerable experience in HTML, CSS, JavaScript, Bootstrap, Jekyll, APIs, XML and Git, all of which will be used in the development of this project.

My aim is to be a better human being and contribute towards society. So, I want to boast too much but I feel that all these combinations are enough to keep me motivated for this project. I am not participating in GSoC for stipends but to work on something that would be used by thousands of users around the world and a sense of satisfaction of doing something good will help me have a better sleep at night.

### **How do I plan to achieve completion of my project?**

7 - 27 May:

During this community bonding period, I will learn about the GTK and interact with the developers who are using this tool. In this way, I will collect the content to be used later in the GTK website. I will collect screenshots and information of various apps built using GTK. I will learn about the procedure of installing and configuring the GTK on various platforms such as Linux, Windows and MacOS. I will finalize the design structure and all related resources such as GIFs, illustrations and images to make a website look interactive and engaging. Based on the content and these resources, I will create a user friendly Web Design. I will list all the APIs to

keep a track of recent releases and major changes to the master. I will work with the RSS Feed from the Development blog of GTK. These two things will keep the content dynamic. I will determine the structure of the repository. I will take steps to make this repository compatible with Gitlab CI. I will also document the way to use Jekyll as Static Site Generator. During this period, I will clear any of the remaining doubts and try to help other developers as well with their problems.

Resources:

- A web design of new UI. I will use [electronjs.org](https://electronjs.org) and [Landing-Page-UI](#) as design references.
- Gitlab APIs for keeping a track of releases and the latest changes in master.  
<https://docs.gitlab.com/ee/api/>.
- An RSS Feed from development blog of GTK. <https://blog.gtk.org/feed/>.
- Configure Jekyll to be used as Static Site Generator(SSG). <https://jekyllrb.com/>.
- Create a brand identity using <https://wiki.gnome.org/Engagement/DraftBrandGuidelines>.
- Configure the master repo for GitLab Pages and Gitlab Continuous Integration (CI).
- Lighthouse 2.0 for testing the website for bugs and enhancing the SEO.
- Bootstrap or [Bulma](#) as CSS Flexbox Framework.

26 May - 10 June:

I will start working on landing page of the website. It's going to be the page with most information and hence will take a considerable time. I have some mockup templates that I designed by myself. These will give me a good starting point. I will follow the design structure of [electronjs.org](https://electronjs.org). It is super neat, clean and well organized. I will use the brand guidelines and use placeholder content at starting which I will update later using static HTML or Jekyll as per the convenience. After the first week, I will do my first push to the repo but will be doing daily commits.

I will be working further on the landing page during this period. I will add more sections such as What is GTK? What can it do? Apps build using GTK, How to install it?, How to use it?. This will be the time I will be using Jekyll to store the content about these above mentioned things. I will start with 'Apps' page as well and which again uses Jekyll for storing the content. I will push my

work to the repo. I will also be documenting my journey in the form of video blog if I get some time. I will be helping other developers with their issues.

11 - 25 June:

I will solve any issues to my previous push after taking the feedback from mentor or community. I will finish the 'Apps' Page. After this I will start working on other key pages. The first one would be the 'Mailing-Lists' page. I will unit test my code. I will push my work to the repo.

I will solve any issues to my previous push after taking the feedback from mentor or community. After this I will try to complete the APIs and Jekyll part. Add responsive to my website for these two pages and prepare and submit my project for Phase-1 Evaluation.

Document my journey so far in the form of a video blog to show how I worked during Phase-1. I will be posting it on either Instagram or YouTube.

26 June – 10 July:

Based on the phase-1 evaluation, I will do some adjustments to my style of working. After covering the three pages in this first phase, I will start working on 'Downloads' page. Based on the latest releases and GTK updates, I will document this page using Jekyll. This page will provide the ways to get GTK on various platforms. I will be using screenshots and code block in HTML to elaborate on steps required for installation. After one week, I will do a push to the repo but will be doing daily commits.

My next page would be the 'Documentation' page. Based on all the content I gathered during Community Bonding Period, I will create a developer friendly UI for this page. I will take design and structural hints from this <https://javascript.info/>. During the development of this page, I will be using Jekyll extensively and implement the APIs to get information about releases and other stuff after consulting my mentor about these.

11 - 25 July:

I will solve any issues to my previous push after taking the feedback from mentor or community. I will finish the 'Documentation' page during this time period. For all the pages I have made till now, I will test them on different browsers and devices to check for responsive and other issues. By this time, about 60-70% of the site would be completed. I will do a push about all the recent changes I made during this time.

After taking the feedback from mentor or community, I will resolve all the issues and prepare and submit my project for Phase-2 Evaluation. Document my journey so far in the form of a video blog to show how I worked during Phase-2. I will be posting it on either Instagram or YouTube.

26 July - 10 August:

Based on the phase-2 evaluation, I will solve any issues to my previous work after taking the feedback from mentor or community. I will complete any leftover work. After this I will start working on other left pages. These pages will include 'Support', 'Language-Bindings', '404-NotFound'. Till this point all of the pages would be completed and I will check for the responsive of these pages. I will do a push of these changes to the master. Based on that, I will resolve all the issues related to my project.

11 - 25 August:

After taking the feedback from mentor or community, I will resolve all the issues. During this period, I will work on enhancing the website for SEO. I will give the final touches to the website. I will be replacing all of the leftover placeholder content with the valid content at the places where it was left. I will test the website using Google's Lighthouse 2.0 and solve the issues if they occur. During the last 3-4 days, I will create documentation for the entire website. This will include the information about the website i.e. the technologies used, methods to propose a change, format for creating issues which will follow the GNOME guidelines on Gitlab. I will prepare and submit my project for Final Evaluation. Document my journey so far in the form of a video blog to show how I worked during the final phase. I will be posting it on either Instagram or YouTube.

Deliverables:

A brand new website for GNOME Toolkit.

A better, safer and efficient content management system in the form of Jekyll.

A faster deployment tool in the form of Gitlab CI/CD.

**For GUADEC, the GNOME conference hosted this year 23rd August - 28th August in Thessaloniki, Greece, I would love to do a small presentation of 3 minutes. What part of my project will be showable?**

The website i.e. '<https://gtk.org>' I will create, will as a whole be the part of the presentation. I will talk about the design trends I chose, how the website works with Static Site Generators and my experience with GNOME and its community. I may include the video blogs that I will create during the GSoC.

**What other time commitments, such as exams, planned vacation, etc., will I have between May 6th and August 26th? What are the dates for these commitments and how many hours a week do these commitments take?**

Based on my calculations, I would be able to give:

- 8 hours a day (from Monday to Friday)
- 4 hours a day (on Saturday and Sunday)

This amounts to the total of about 48 hours a week.

Also I have no exams or any other engagements during this 3-month period.

I may go out on a weekly vacation(maybe from 3 – 10 June) with my family to rejuvenate myself because it's very hot summer in India and most of the people head off to mountains to freshen themselves up a bit; after all we all are humans. But I will carry my laptop along with me and work for an hour or two during this vacation. I will be working on Saturdays and Sundays due to no other commitments.

## **What other relevant projects have I worked on previously and what knowledge I gained from working on them?**

I have worked on the following projects:

- Websites: <https://cessgndu.com> , <https://hackathon.cessgndu.com>
- [SRT Convertor](#): A tool to convert Video Subtitles into Text Format.
- UrLane: An app to guide you through least populated toll plaza lane.
- [Fetal Distress Classification](#): A project to save innocent infant lives using Cardiotocography and CNN image classification.

By working on these projects, I learnt about various technologies such as HTML, CSS, JavaScript, React, PHP, MySQL, AJAX, Python, APIs, Batch, Git, Github, Lighthouse 2.0, Design Analysis and SDLC.

## **What are my past experiences with the open source world as a user and as a contributor?**

Being an open source developer and user as well, I feel like Open Source has changed our society a lot. It has given the power to student developers to show their potential to the world. It has led to a revolution and has created communities like never before. I also spend my free time learning and contributing to Open Source.

My Github Repository: [@ravgeetdhillon](#)

Project: [Fetal Distress Classification](#)

- This is an Open Source Project belonging to medical field which I started along with my developer friend [@hdsingh](#). We developed this during Smart India Hackathon 2019 event and were the runners up there. We were suggested to patent the project but due to our strict schedule we couldn't devote time towards this project, so we decided to Open Source it in order to contribute towards the community.

Pull Requests:

- I solved the [Issue #15041](#) with [Pull Request #15124](#) and contributed towards phpMyAdmin and solved a problem of misleading documentation.
- I worked with Github Linguistics with this [Pull Request](#).



- The repo of [Current Website](#) is way too out of date that it wasn't worth the effort to edit something in it. The new website would be created for scratch and then the valid Pull Requests could be made.