

# GSOC 2021 Project Proposal



## CiceroMark to OOXML

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## About Me

I am currently in 2<sup>nd</sup> year of my Bachelor of Technology Degree from Indian Institute of Information Technology Lucknow in Information Technology. I have been tinkering with code since my first year. I love working on Web Apps as well as the related tools and technologies which make Web Apps possible and I have spent many of my nights hacking on such projects. I also regularly participate in a lot of hackathons and competitive programming contests held on Codechef and Codeforces.

Most recently I was part of several Open Source Organizations like [Creative Commons, Mozilla and Webpack](#) as an Open Source Contributor.

This taught me a lot about **Teamwork, Problem Solving, Ability to find and fix bugs, Review Code of other teammates, etc.**

I learnt how to provide **efficient and high quality code** for projects used by thousands of people across the globe.

## Project Description

I plan to create a new package under the **markdown-transform** repository which will consist of all the utility functions required to convert the CiceroMark into OOXML. My goal during GSoC period will consist of making the package take a round trip transformation of CiceroMark into docx and back which contain smart clause templates and then integrating this package with markdown-cli via adding new commands into Cli where the user will specify the src format and output format and these utility functionalities will perform the required functionality.

## Solution Approach

### → Support for Ergo expressions

- ◆ The required utility functions that need to be transited from **Cicero-word-add-in repository** doesn't consist of conversion of **Ergo expressions** while transmitting conversion of CiceroMark to OOXML.

### → Improvements in Test Automation

- ◆ The utility functions to perform the required conversion of **CiceroMark to OOXML** doesn't have support for **unit test cases**. So would provide the tests folder to check the required utility functions.

### → Support for OOXML →CiceroMark

- ◆ The utility functions in **markdown-transform** lack a little bit of support for conversion of OOXML →CiceroMark like ordered lists, unordered lists and many others. So I would first identify such areas of conversion and implement the utility functions.

## Overview

I wish to contribute to the development of **Web Components, Cicero and Markdown Transformation**. I have been engaged in development since the beginning of March 2021 and have discussed several issues and gave mock codes for adding the new features and have successfully merged Pull Requests for adding features, finding and fixing bugs, writing tests and enhancing the documentation as

well. I want to take that work forward and also contribute to the related **Cicero** and **Concerto** repositories. There are a number of existing problems to be resolved, as well as multiple planned features that I wish to work upon.

## Work Experience (Open Source)

### → Accord Project(Cicero)

- ◆ I have been contributing to the development of Cicero since the beginning of March 2021. My contributions include - adding features, writing tests, triaging issues and reviewing code.

#### ◆ Major Contributions (Upto April 2021)

- Added tests folder to be a part of zip while executing **archive** command
- Added Support for private template libraries by adding **headers to HTTP Options** and enhanced tests for the new functionality.
- Discussion about issue [#594](#) with required mock codes.
  - [My Pull Requests](#)
  - [My Issues](#)
  - [#621,#632](#)

### → Accord Project(Web Components)

- ◆ I have been contributing to the development of Cicero since the beginning of March 2021. My contributions include - Fixing bugs, adding features, writing tests, triaging issues and reviewing code.

#### ◆ Major Contributions (Upto April 2021)

- Removing Stale Dependencies for Markdown Editor
- Removing Stale Dependencies for Contract Editor
- Cypress Testing
- Updating Docs for Contract Editor
- Bugs for Cut Operations
- Discussion about issue [#52](#) and [#14](#) with required mock codes.

- [My Pull Requests](#)
- [My Issues](#)
- [My Commits](#)
- [#290,#298,#313](#)

## → Creative Commons(Dec 2020-March 2021)

### ◆ Chooser

- Several Good First Issues
- Transition of e2e testing from nightwatch to Cypress
- Fixing Bugs while updating **vue-test-utils**
  - [My Pull Requests](#)
  - [My Commits](#) (30 Commits #4)
  - [#282,#299,#303,#308,#322,#327,#328,#331,#341,#343](#)
  -



### ◆ Creativecommons.github.io-source

- Several Good First Issues
- Added **browserlist** and **editorconfig**
  - [My Pull Requests](#)
  - [My Commits](#) (13 Commits #18)
  - [#576,#584,#605](#)



### ◆ CCOS-Scripts

- Several Good First Issues
- Added python dependencies to the repository
- Script to automate skills.json file
  - [My Pull Requests](#) (2 Merged)
  - [My Commits](#) (13 Commits #6)
  - [#122,#127](#)



### ◆ Several Other Repositories

- [creative commons-base](#) (2 Pull Requests)
  - [#60,#62](#)
- [wp-plugin-creativecommons](#)(1 PR)

- [#144](#)
- [Vocabulary](#) (Reviewing code, Triaging Issues)

## → Mozilla(November 2020-January 2021)

### ◆ fxa

- Updating Bash Scripts to resolve bugs
- New functionality and testing in **fxa-content-server**
  - [My Pull Requests](#)
  - [My Commits](#) (3 Commits #72)
  - [#7078,#6919,#8059](#)



## → Webpack(October 2020 - November 2020)

### ◆ webpack

- Added **followSymLinks** Options
- Testing and updating the snapshots
- Created Runtime Requirements for Federation Plugin
  - [My Pull Request](#)
  - [My Commits](#) (6 Commits #77)
  - [#11771,#11843](#)



## Goals/Deliverables-

### → CURRENT ISSUES

- ◆ Reduce down the current number of issues as much as possible.
- ◆ Some major issues I am aiming to solve [#594](#), [#384](#), [#524](#)

## Availability

I would be able to devote **approx 20 hours** every week to GSOC. From **May 17 to May 22** I will have my end sessional examinations and time devoted would be around **1 hour** per day for that time.

**I have no obligations after May 22 and will be devoting all my time to GSOC.**

## Milestones-

### → Application Review Period (April 13 - May 17)

- ◆ I will solve some issues of **Cicero and markdown transform** of Medium Difficulty and Challenging Difficulty and get more comfortable with the CLI.
- ◆ I will also spend this time to become more comfortable with the internals **of the DOCX format** and utility functions of **markdown-transform** and **Cicero-Word-Add-In**.

### → Community Bonding Period(May 17- June 7)

- ◆ My End-semester exams will last till **May 22** and since this comes under the Community Bonding Period. I will try my level best to

catch up with all the communication threads during this period and will be a very active participating member.

- ◆ I will help to merge pending PR's, close issues and create a new package under **markdown-transform** to start my work.
- ◆ Discuss with mentors about the roadmap and finalize the plan of action.

## → Phase 1(June 7 - July 12)

### ◆ Week 1

- Initializing the package with the required tools listed below-
  - Babel
  - Eslint
  - Jest
  - Webpack
  - Jsdoc
- Required Code transition from **cicero-word-add-in** to **markdown-transform**.

### ◆ Week 2

- Improve Test Automation.
- Goal during this time is to establish a test infrastructure which supports unit testing and Integration testing.
- Creating new tickets for code improvement.

### ◆ Week 3, Week 4

- Support for **ergo expressions** while conversion from CiceroMark to OOXML.
- Extending the Test Automation for providing support for **ergo expressions**.

### ◆ First Evaluation(July 12-July 16)

- Working upon any form of backlogs.

## → Phase 2(July 16-August 16)

### ◆ Week 5

- Required code transition from **algo-ooxml** branch to **master** branch of **markdown-transform** for conversion of OOXML → CiceroMark.



- Creating new tickets for extending support of the conversion to other Accord Project templates.
- Goal during this time is to create issues and discuss with mentors about left out conversion like ordered lists, unordered lists, Inline Clauses and many others.

### ◆ Week 6, Week 7

- Extending the support for new tickets created for making a successful round trip transformation of OOXML → CiceroMark.
- Extending the Test Automation for providing support to the new functionality.

### ◆ Week 8

- Working upon any form of backlogs.
- Removing the utility functions of **Cicero Word Add In** and importing those utility functions from **markdown-transform**.

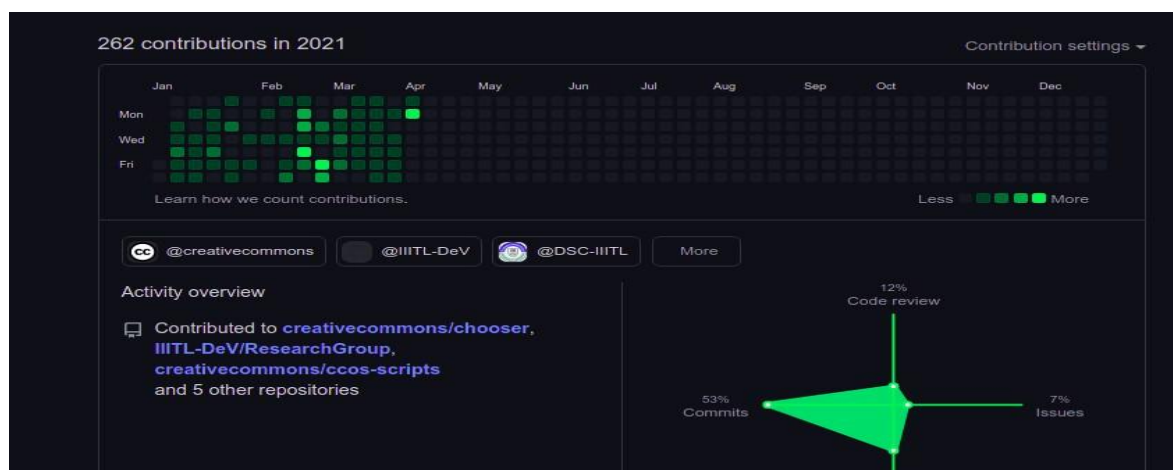
## Why Me?

Other than being a self taught developer for over 1 year, and a passionate open source contributor, I believe that I am well suited for this project, because I am already working on the project, and I already know very well about the project version and roadmap.

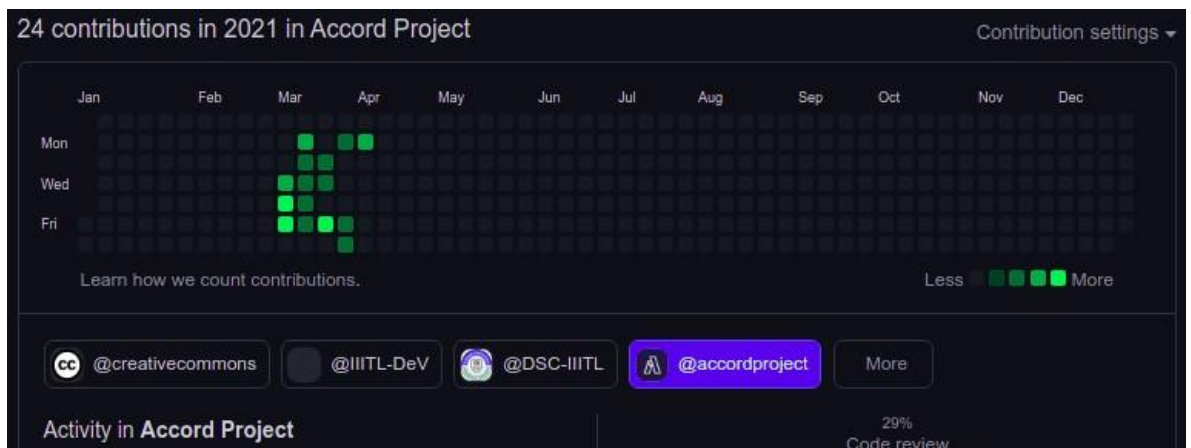
## Following are some points that I would like to highlight-

- Consistency- I am very consistent with my work, My Contributions are almost regular and consistent in the Accord Project since I have been engaged with the project.

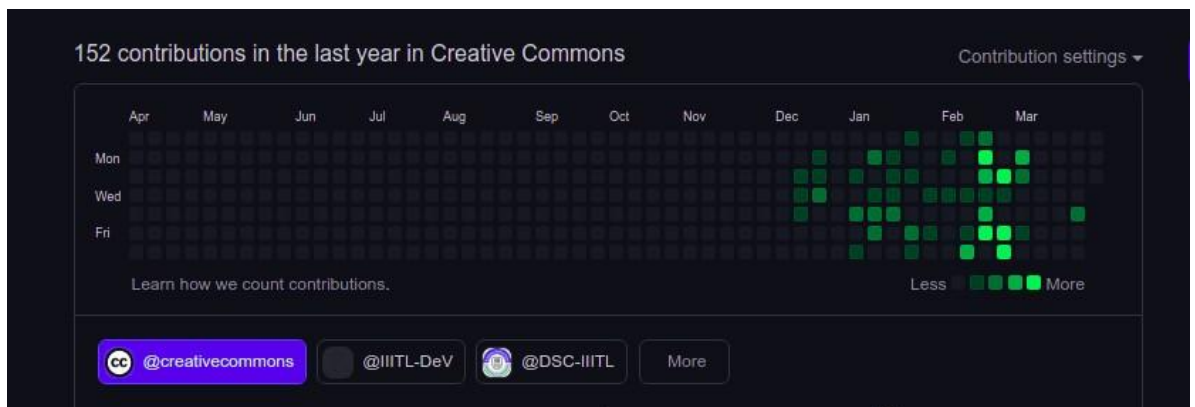
### Overall Contributions



## Contribution to Accord Project



## Contributions to Creative Commons



## Post GSoC Plans

Here, I will keep working towards the **Cicero-word-add-in** and **markdown-transform** and keep on adding various enhancements.

In addition to continuing working and improving on the project I would also love to keep contributing to **Accord Project** and other open source projects and learn as I grow.

I realize that **Accord Project** is a hardworking and modest organization. It is a community where we let the people investigate environmental concerns by using inexpensive DIY techniques which in my terms is of high social and environmental importance and myself being a member of Accord Project and an active contributor of **Cicero** and **Concerto** promise to spread the word of awareness so that the purpose may be

sound to a large plethora of people. I will begin by writing a manual for step by step usage of Cicero and Concerto in regarding all its features. This will ensure that people actually find and come across Cicero and Accord Project . I will also work on spreading the word by writing Quora answers, making blog posts on platforms such as Medium.

The main part of this improvement is making **Cicero** as much performance-efficient as possible and to make it more and more user-friendly.

I will definitely try to make my juniors and batch mates in college aware about open source and encourage them to start contributing as well by organising several awareness programs and meetups.

## Outreach

I strongly believe in sharing knowledge and collective growth, thus I have always tried to encourage other contributors and newcomers to contribute to the project through opening FTO(First Timers Only) issues and I would continue to do so. I will allow for newcomers to contribute to the project by breaking up tasks into smaller pieces and opening FTO issues for easier tasks. I would love to work with other people on the project and will try to make the project as developer friendly as possible. I am no GPU or software developing expert, but I am firm follower of - always follow the 50%-50% rule... 50% of the required work you should know how to do or at least how to approach another 50% you should have no idea about but be really eager to learn. I have carefully planned my work and I am more than just eager to learn.

