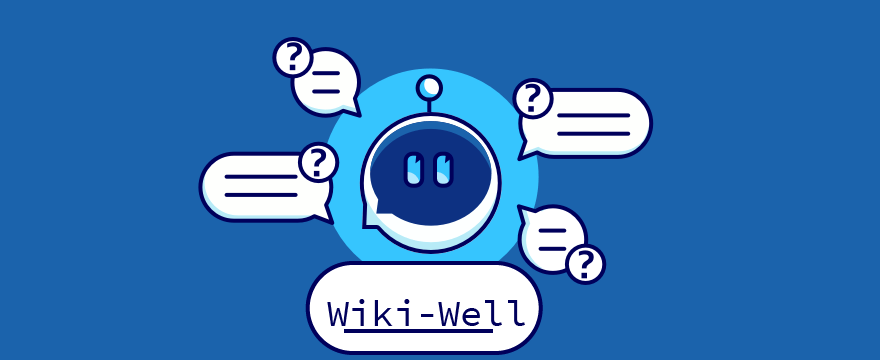


***Wiki-well bot for Zulip Wikimedia developers, which automatically replies newcomers with pre-trained messages and queries.***



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# **Proposal**

*Wiki-well, a personal bot for Wikimedia Zulip that is capable of sending automatic messages to welcome new users, who ask for information on getting started and as well as resolve their queries with predefined trained set of replies, eventually making the Wikimedia-Zulip a user-friendly site to browse.*

# **Synopsis**

*The target is to achieve a working 'all time attention' bot which welcomes a new users/contributor and guides them to reach the information they try to seek seamlessly and resolve their doubt with the help of pre-defined and trained answering bot, guiding the newbie contributors and users get their work done with ease.*

# **Proposed Features:**

# *all time attention*

* *Welcome new contributor*
* *Ask anything with* ***!ask***
* *Stream guidance*
* *Seek help with* ***!help***
* *Zulip-IRC bridge*
* *Search topics with keyword on Stackoverflow and Wikipedia*

# **Detailed Explanation of Proposed features:**

*All time attention*

*The bot is on all time listening mode, where there is no need to explicitly call the bot by mentioning it or using any key word for it.*

*e.g. (@****wiki-well*** *or \*\*****@wiki-well****\*\*)*

*It is ought to listen every single message and wait for cues to get triggered using the Wiki-well bot python API. We may enable add-on features of this bot such as seeking for help, stream redirection, search queries, chat-bot which will help to clear doubts of the new users/contributors.*

*Welcome new contributor*

*Every time when new user sign in visit/signup will trigger the bot and it will automatically welcome the user on the page, simultaneously fetch the data from* ***#announce****. And after each new signup, the bot will show them* ***#general*** *customized welcome message as well as with related getting started topics with the list of available GSoC/GSoD/Outreachy/coding/ commands*

*Ask anything with !ask*

*To browse, search, find and ask any topic of interest of the contributor or the user, one may have doubts, making the site harder to adapt. So, to make it seamless and easy for them,*

***!ask*** *is for their service. Let us see it in detail, if it’s not mentioned previously, the bot will create a new stream regarding that topic and will ask team and staff for the contributors and users about that specific* ***query****.*

*Stream guidance*

*The new users may join any stream, of the available. Then it becomes important to have them on a right stream to get proper* ***help and support****.*

*The Wiki-well will enable the users to get adequate amount of data help them to getting a proper stream, and also provide a control to mentors and admins to put them to right streams*

*Seek help with !help*

*This feature will enable the user/contributor to seek* ***!help*** *on any issues, which could be achieved with this feature. The pre-trained set of queries and FAQs can be attached with the command !help*

*e.g.* ***!help*** *open issues.*

*Zulip IRC Bridge*

*The Wiki-well bot would be implemented as a real-time syncing bridge between specific streams in order to acquire immediate help regarding those particular topics.*

*e.g****. #gsoc-mentors***

*Search topics with keyword on stack overflow and Wikipedia*

*It may be better to seek help from experts’ concern; the bot will be used as a direct helper to ask particular topics along with Stackoverflow and Wikipedia both come with great APIs which can be utilized for this purpose.*

# **Timeline**

|  |  |
| --- | --- |
| *Period* | *Task* |
| *Begins May 4th to May 17th 2020* | *Community Bonding Period*  *Establishing period of project. Outlining the requirements and brainstormed features of the project. Discussions with mentors. Identification of problems and working hands-on solutions. Test Driven Development and proactive risk strategy-based work. Taking inputs from Community, active and present members, participants and as well as mentors of GSoC, GSoD, Outreachy and Wikimedia. and list down suitable features feasible and how they would be implemented in our project.* |
| *May 18th to May 24th 2020* | *Stepping into primary features of the bot. Implementing and testing features such as a Welcome message and replying to visitors’ messages.* |
| *May 25th to May 31st 2020* | *Studying the run time scenario and listing down the chronological order of features that must be added step by step to give a user friendly interface to the participants. Revisiting discussion outcomes and adding features such as redirecting to the information asked by the new user, based upon FAQs, links and subscribing them to a particular stream depending on whether they are an Outreachy/GSoC/GSoD participant.* |
| *June 1s to June 7th 2020* | *Begin production deployment on Toolforge pipeline and elimination of all possible errors.* |
| *June 8th to June 14th 2020* | *Test Round I: Probation period testing and articulation documentation.* |
| *June 15th to June 19th 2020* | *Phase I evaluation* |
| *June 20th to June 26th 2020* | *Inclusion of all features and polishing those for final revision, features included from discussions and Take input from discussions and from current and previous mentors, participants for verifying requirements of features. Identify and implement strategies to enable seamless message transfers between Wikimedia IRC channels and Zulipchat.( i.e IRC bride support)* |
| *June 27th to July 3rd 2020* | *implementing a feature !ask for seeking help from mentors and exports.* |
| *July 4th to July 10th 2020* | *Implement a feature for bot administrators to update core messages (such as welcoming and replying to “!help”) from streams itself.* |
| *July 11th to July 13th 2020* | *Testing Round 2: Exploratory testing, automated testing and documentation. Refine present features and strategize on what features to be added next.* |
| *July 13th to July 17th 2020* | *Phase II evaluation* |
| *July 17th to July 23rd 2020* | *Allowing GSoC, Outreachy etc. via on-stream commands. Participants can make use of these to summon groups to summon them as well as available details (such as email, IRC nick).* |
| *July 23rd to July 29th 2020* | *Allowing settings project-specific feature commands via on-stream commands. Participants may make use of these groups to add them as well as available details* |
| *July 30th to August 5th 2020* | *Implementing search functionality presolved topics from Wikipedia and Stack Overflow all together.* |
| *August 6th to August 10th 2020* | *Testing Round 3: test robustness and recovery, set up failsafe measures.* |
| *August 11th to August 13th 2020* | *Confirming the codebase completed and elimination stage of all flaws before final implementation. merging into the main branch of codebase.* |
| *August 14th to August 17th 2020* | *Seamless implementation of all finalized features and documentation, introduce bot to participants, find ways to extend the bot beyond current usage as a stretch goal. enable seamless message transfers between Wikimedia* |
| *August 17th to August 24th 2020* | *Final evaluation of GSoC participant student by mentors* |
| *August 25th 2020* | *GSoC Result 2020 Announcement Google Summer of Code* |

# **Deliverables**

* *An automatic all time listening user-friendly Wiki-well bot, that can understand commands and help accordingly to the newcomers to get their targeted information and achieve as well as resolve their doubts.*
* *a bot which helps newbies to getting into right streams*
* *a always summoning bot which listens to each and every message; !help and !ask can be used to ask anything.*
* *and interactive super chat bot which helps like a real human according to the keywords used in the query*
* *a complete control over the bot by admins which can be easily modified according to use*
* *a complete proper documentation from installation to uses*

# **Participation**

*I plan, as described above, to create a GitHub repository of the bot* [https://github.com/spielers/wiki-well](https://github.com/spielers/wiki-help)

*and this will be tested with any working Zulip development environment, as shared In the blog. Thus, I will be committed to maintain a proper GitHub repo with main and develop branch with each upcoming and reviewed progress will merge it into the main branch.*

*MIT listening*

*Furthermore, I will communicate with mentors through the Zulipchat established and coordinate with them with emails*

*Thus, the progress and tasks can easily be tracked with a phabricator. The weekly reports on progress, issues, bug fixes, discussions and feature implementation will be followed.*

*As I am a blog writer, I plan to articulate this complete journey and experience and share it blog on medium, to support my aim to reduce the gap between young contributors and the GSoC, encouraging and enabling them to learn and have updated information.*

*The complete step wise user manual for Wiki-well bot from installation to implementation, detailed options, brainstormed FAQs and added features will be produced and articulated in the further evaluation reports for the mentors.*

# **About me**

*I am a second year Undergrad majoring in Computer Science Engineering, at Vellore Institute of Technology Bhopal. As my course suggests, I love to automate things, which is a core requirement of this project. Also, I have a short experience with working with Zulip, Chatterbot and Selenium, which all uses python mainstream.*

*I, maybe, all time available this summer vacation, i.e. April to July, which is a crucial period of GSoC*

*Please find my contributions at GitHub, which are quite significant and been for a long that I work with different Java-Script frameworks. Currently maintain Gatsby.js and node.js frameworks.*

*I believe that young minds need to have the right guidance for open source development, where everyone of us want to contribute but hardly they know how and where to do so.*

*So, I want to eradicate the gap, and wish to fill this with encouragement and guidance along with pathway, as we know Wikimedia is a huge organization, to whom, of young newcomers willing to contribute to it. Zulip welcoming bot is my step to put further, putting me on my motto to cover and encourage others as well along the journey of GSoC.*

*Thus, I would like to contribute to this particular project as I have highly relevant experience and meet the exact requirements, completing the task of Wikimedia.*

# **Why me**

*Allow me to share my hands-on experience working with python and its various libraries along with the framework from the last two years. So, I have creative experience in bot creation.*

*You may have a glance at previous works, as my coding style is Pep 8. Also, I have been familiar with Zulip codebase.*

*Furthermore, I already write blogs on how to set up an environment?* [*https://medium.com/@spielers/how-to-set-up-zulip-development-environment-on-ubuntu-18-04-7a3b8adbb423*](https://medium.com/@spielers/how-to-set-up-zulip-development-environment-on-ubuntu-18-04-7a3b8adbb423) *and How to write your first zulip bot?.*[*https://medium.com/@spielers/how-to-write-your-own-zulip-bots-f000813eda1a*](https://medium.com/@spielers/how-to-write-your-own-zulip-bots-f000813eda1a)

*Thus, considering this rationale, I find myself favourable for this project.*

# **Past Experience**

*Experience in Zulip development*

*1] Trainwala Zulip bot: ​ A live train PNR verification and confirmation bot that gives information about bookings and confirmations, changes if any of the train. Resolves the queries run time online at the site. ​ Please refer below and have a look at ‘Trainwala Zulip bot’*

<https://github.com/spielers/Trainwala-bot-zulip>

*2] Echoes bot: ​ A simple primary level bot for Zulip, which is able to echo each and every message received by the bot. This bot thus can be used as a template sample to create new bots from it. ​*

<https://github.com/spielers/Zulip-bot-echoes>

*3] Wikimedia new-contributor welcome bot: ​ A Bot that welcomes new contributors/users with a welcome note ‘Welcome to the Wikimedia organization!’*

<https://github.com/spielers/Wiki-media-welcome>

*4] Zulip-bot: ​ A templated HelloWorld bot which replies with a beep pop up to every message. This can be used as a base project to create a new bot.*

<https://github.com/spielers/zulip-bot>