

Project Proposal

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| Zulip |

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| Course | **CSC 340 – Principles of Software Engineering** |
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| Team Name | **OSEA** |
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| Executive Summary |
| Zulip is an open-source chat applications that uses threaded conversations to help people get stuff done.  We would like to add the ability to quickly see activity such as emoji reactions on your post and have the option to set your activity status (here, in a meeting, offline). |

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| Background and Problem History |
| In the age of digital and remote work, team communication is a necessary component of most professional teams, regardless of the field. While email does work, it is not the most efficient or user-friendly way to have a digital discussion. Many companies such as Slack and Microsoft Teams have made different ways to facilitate team communication, but neither have ways to organize the chat. Zuilip makes all posts fit into topics allowing for even more compartmentalization of discussions and increases the readability of the team chat. However, Zulip doesn’t have a way to see reactions quickly across all topics. Zuilp also doesn’t have a way to set your availability to let coworkers know if they should disturb your work. |

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| Solution |
| We will be adding a way to quickly see reactions and activities on posts you wrote. This will be useful as often people will give a quick thumbs up/down on a post instead of a text reply. In most chat apps, the emotes don’t prompt a notification making them easy to miss. This will make it easier for people to see what has been reacted with across multiple chats.  Often in the day, a person will want to have some heads down work time. It is important to tell one’s coworkers to not disturb them unless necessary in this time to promote efficiency. We will be adding a way to set a status of “online,” “in a meeting,” “do not disturb,” “offline,” etc. to Zulip to promote healthy work boundaries.  Another feature we would like to add is the ability to skin the Zulip app. This would allow users to add their own emoji, change the color scheme, and add background photos. This could promote company branding, allow a company culture to flourish, and even increase productivity.  In today’s workplace, work can be done anywhere. Sometimes it is beneficial for workers to know each other’s location. We will be adding a feature to specify your location. |

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| Project Deliverables |
| * Ability to find reactions to post quickly and easily – Approx. 10-15 hrs * Ability to set a work status – Approx. 10-12 hrs * Ability to “skin” the app – Approx. * Ability to set location – Approx. 15 hrs |

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| Success Criteria |
| * Be able to read and understand the Zulip source code * Be able to plan our features * Have good team communication * Create images of our features’ UI |

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| List of Required Project Resources and Materials |
| * Stack Overflow * Github * Canva * Python editor |