LibreFoodPantry: Developing a Multi-Institutional, Faculty-Led, Humanitarian Free and Open Source Software Community

PRESENTERS: **Karl** Wurst and **Stoney** Jackson

- Engaging students in HFOSS projects provides real-world software development skills while helping society.
- Working in existing projects is challenging.
- Faculty-led projects remove many challenges but are often too small and have no continuing community interaction.
- Multi-Institutional community combines benefits of faculty-led and large community.

HISTORY

1. NCC (in 2015), WNE (in 2018), and WSU (in 2018) open campus food pantries.
2. CS faculty evaluate existing software at workshop and decide to build their own.
3. Pilot in Spring 2019 courses.
4. Retreat in Summer 2019 to reflect, establish community norms, unified vision.
5. Classes and development in Fall 2019, Spring/Summer/Fall 2020, Spring 2021.
6. Architectural redesign to Microservices.

CHALLENGES

1. Licenses to allow code and documentation to be used freely by anyone forever.
2. Establish community governance structure that is welcoming and inclusive to all students and faculty. Make it easy for faculty to join the community and shape the project to meet their campus' needs.
3. Develop workflow that uses industry-standard tools and processes, and allows student teams help guide the project.
4. Choose communications tools that keep history and encourage transparency .
5. Allow faculty to easily review student contributions to provide feedback.
6. Generate story map to work toward a unified vision of the software's future.

Involving students in a **Humanitarian Free and Open Source Software (HFOSS) community can be a great** learning experience, but **hard with existing communities.**

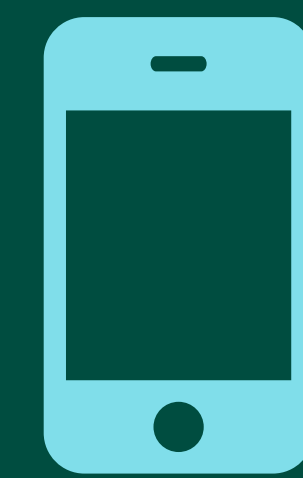So, we **built our own** with students and faculty in mind, and used it in our classes.

Want to join us? Find out how at our Lightning Talk tomorrow in Session 3A at 11:50am.
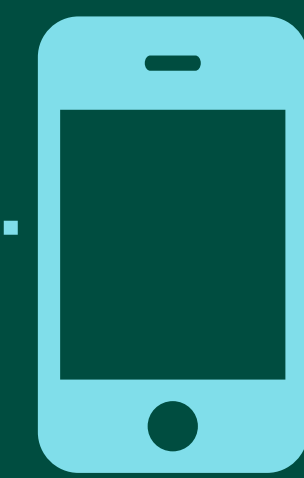
Take a picture to **download** the **SIGCSE 2020 paper**

Take a picture to **view** our **community's website**

http://cs.worcester.edu/kwurst/img/SIGCSE-2020.pdf

https://librefoodpantry.org/

SOLUTIONS AND RESULTS

Licenses: GPLv3, CC-BY-SA 4.0

Community and Governance

Code of Conduct

Reviewing Student Contributions

Communications Tools

Workflow

Story Map
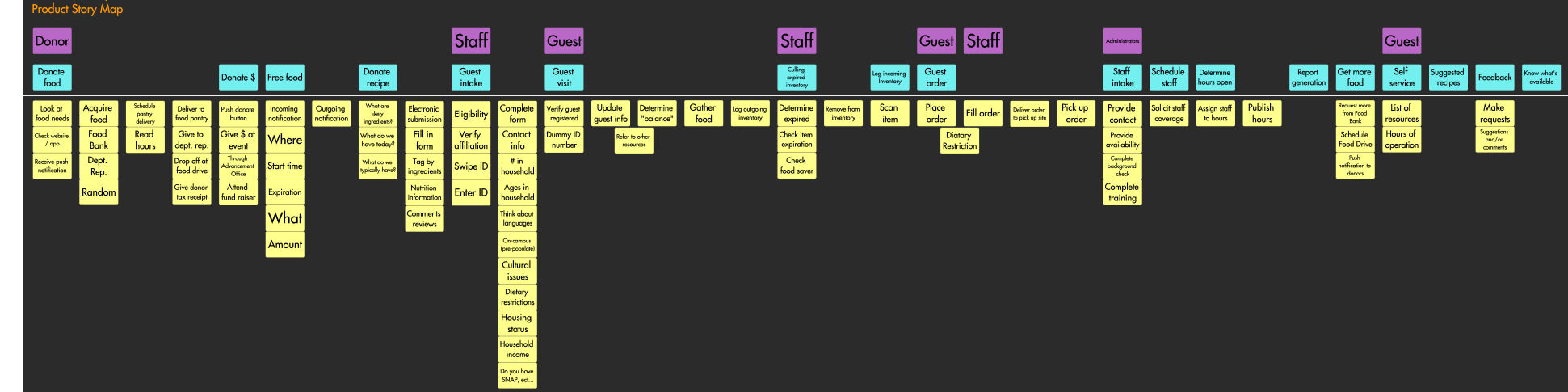
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WORCESTER STATE UNIVERSITY

WNE WESTERN NEW ENGLAND UNIVERSITY

NCC NASSAU COMMUNITY COLLEGE

THE HUMANITARIAN FOSS PROJECT