

Petri/Open Field Experiment

Summary: Petri/Open Field Experiments is a large-scale field experiments infrastructure that was a research project(Fall 2018 - Present) with Professor Hari Sundaram. The purpose is to allow researchers to easily and smoothly conduct field experiments at scale by allowing them to generate and deploy their questions through a web application, which would then be received by participants on their mobile devices in a native mobile application. Researchers only had to input their questions and their constraints (time restrictions, ordering of questions) and then could ship them out. In this first prototype, we collaborated closely with a professor in the Psychology department at UIUC studying decision making and preference behavior. My work resided in doing mobile engineering, specifically in building the question flow for the participants. Each week I showcased my progress on implementing the user interface on the research participant portal, and then had a discussion on the experience details. To be careful in removing biases and controlling randomization properly in the study, I had to orient pie charts randomly to mitigate visual biases as well as giving researchers a simple interface control over the randomization of both the selection and ordering of questions. The outcome of this study is that the Psychology group was able to deploy their complete study with minimal technical assistance from our team. We have continued our work this semester by making the application on the researcher end autonomous, allowing researchers to independently deploy and run their studies without any supervision from our team.

Services

A flexible, mobile-phone based experimental infrastructure, provides assistance for open experiments

Trigger Set
You can set flexible triggers as you like, no matter where or when the users are, we can send notifications.

Responsive Design
As you'd like, every experiment can be edited and added responsively.

Web Security
Every information you provide will be stored in our server securely, and we will never let them out without your permission.

Login portal for researchers: <https://www.petri.life/>

Below are some snippets of the general interface/test run with the Psychology department.



Figure 1. Research participant landing page on mobile application



Figure 2. Example question with graphs deployed during Psychology test run on mobile application

You can edit the information of this experiment here or go back here when you choose to save the experiment as unpublished state. But if you choose to publish the experiment later, you can never edit it anymore.

- ✓ Getting Started
- 🔗 Experiment Info ▶
 - Basic Info
 - Related Documents
 - Set Condition
 - 🔗 Preview
- 📁 Task Manage

Experiment Preview

Basic info Instruction Consent Form

Title : Test run	Version : 0.0.1
Contact Email : sunaustin8@gmail.com	Contact Phone :
Study Description : Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.	

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Figure 3. View from researcher web portal after entering information about a study they will deploy