

# BIONET: A PROGRESSIVE WEB APPLICATION

By

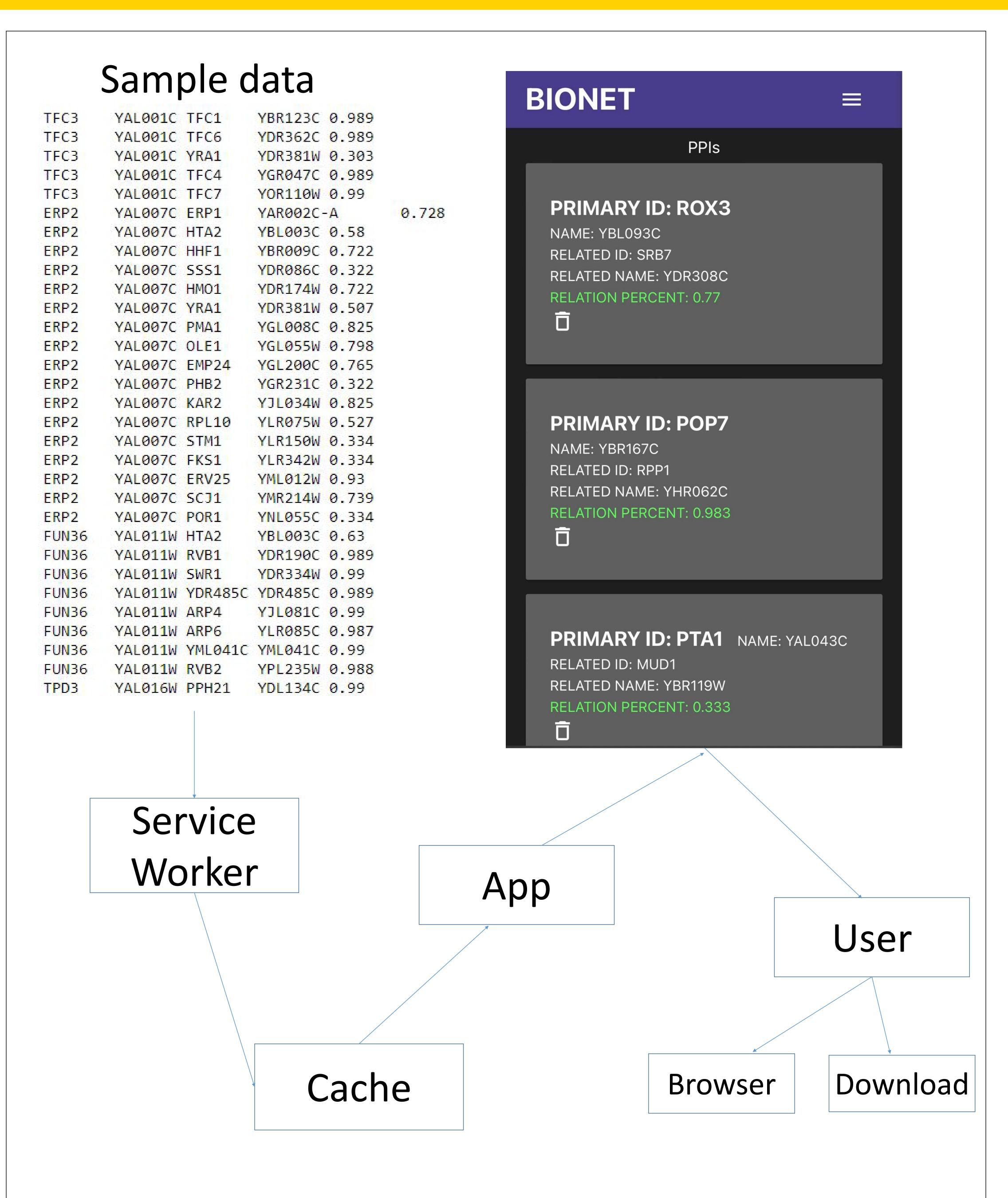
Bacallo, Edgar & Womack, Carter

## What is a PWA

- PWA's are Progressive Web
   Applications that can be accessed
   from any browser, mobile device or
   operating system and can be
   downloaded from the browser to be
   used more like a native application
- With persistence, the data is cached directly through the app which makes the database useable with no internet connectivity.
- All changes made offline are updated server-side when the application is brought back online.
- We chose to implement a PWA using protein-protein interaction data, but the framework can be used for any field that may require database management where internet access may be inadequate.







## Challenges

- Distribution of data
- System Administration
- Networking
- Graphing through Cached Data

## Conclusion

- The ability to work offline ensures
   preservation of data and adding
   new data any time the application
   is accessed.
- Users can adjust and create new entries for on going projects.

#### Future Plans

- Add sign-in functionality and accounts
- Add more interactivity to the database such as graphs.