

Success Criteria 1: Application Programming Interface

A robust and well-documented API will be a critical component of all Labour Platform modules. For example, an expense-tracking tool should provide an API that allows an authenticated user to access their expense data via the Labour Platform Hub. APIs support the modular nature of the Labour Platform, acting as the glue that connects the modules together and provides a cohesive experience, ensuring that relevant data is always available throughout the Labour Platform.

The Labour Platform Hub is connected via API to Labour Platform modules, and modules can also provide data directly to each other via API connections.

Success Criteria 2: Authentication System

Assembling a Labour Platform from different modules necessitates a shared authentication system. If a member-owner needs to access multiple tools, they must be able to do so with the same credentials, whether these credentials are a common username and password or authentication via a third-party account (e.g. Facebook or Google). We are interested in the potential of [Auth0](#) as a tool for enabling this authentication system. Auth0 provides software development kits (SDKs) for most major web application programming languages and frameworks, and allows applications to be configured to support authentication via username and password or via third-party accounts. In our examination of existing tools, we are particularly interested in applications which have an authentication system that can be modified to support shared authentication with other modules in the Labour Platform.

Success Criteria 3: Internationalization

Platform co-ops are a global phenomenon, and as such we need to keep internationalization first and foremost in our development of Labour Platform modules. We intend to develop all Labour Platform modules as open source software, which will enable us to leverage the open source plans offered by translation tools such as [Transifex](#) to facilitate the translation of their user interfaces. For any modules which involve currencies, taxes, or regulatory aspects of platform co-op business, we will need to ensure that the development process supports regional customization for local currencies, tax regimes, and regulations.

Success Criteria 4: Performance

The performance of Labour Platform modules is essential to their adoption and use by co-op member-owners. We intend to develop all new modules as [Progressive Web Applications](#) (PWAs) and leverage PWA features to provide a performant experience on mobile devices with limited connectivity, including supporting as much functionality as possible in robust offline modes. This could include the ability to log an expense while the device is offline and uploading it once the connection is restored, or caching the details of an upcoming appointment on the user's device so that they can navigate to their client's residence even in areas with limited service.

Another strategy for performance is the use of a performance budget. We intend to deliver minimal client-side assets to achieve PWA functionality, and use aggressive asset caching to ensure that the application can be loaded with minimal requests following its first run. We will leverage tools such as [Lighthouse](#) to establish targets for performance and ensure that Labour Platform modules meet these targets.