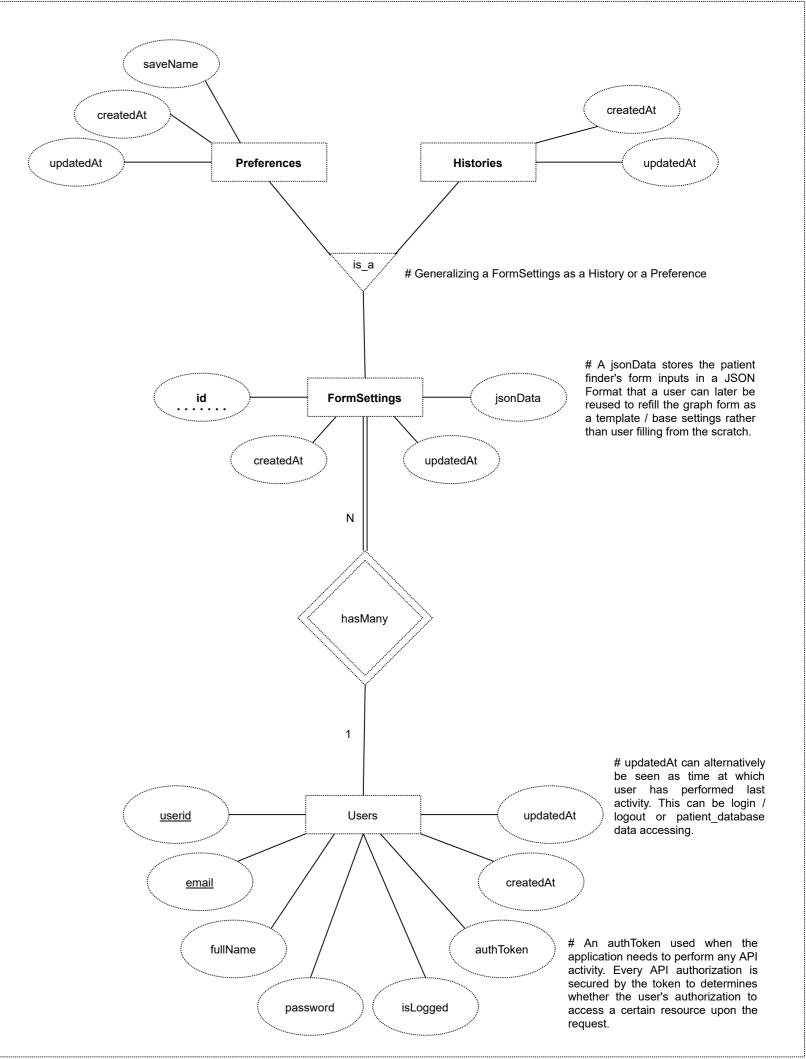
Short Description about the ER- diagram database for User preferences:

This product is targeted to build a database, whose design includes following properties:

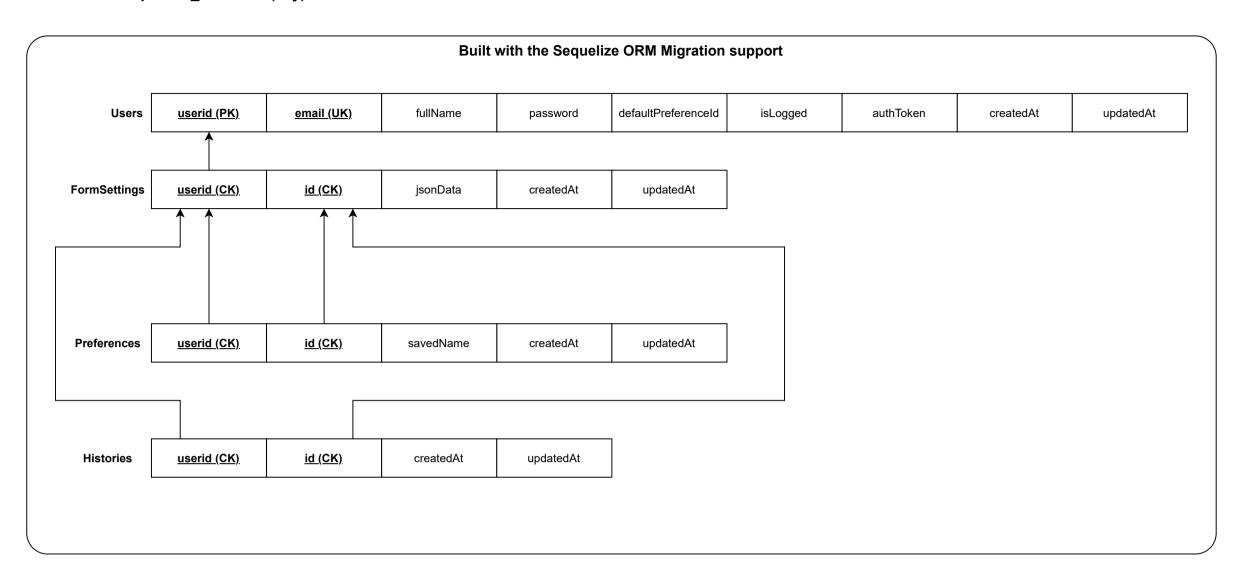
- 1. Each user of Patient Finder application can save their Patient Finder form definition saved within the FormSettings entity.
- 2. Hence, A single user can have many Form Settings, that is stored in a way that is uniquely identifiable. The configuration related to inputs are stored into the database as a raw JSON format named jsonData.
- 3. A form settings can be generalized into two categories:
 - 1. Preferences: A FormSettings configurations that are manually saved by a user, so that users can default certain settings like a template rather than filling the long form from scratch. This is a means for users to efficiently work with the Patient Finder application, gaining a bonus interface experience.
 - History: A FormSetting configuration that are stored automatically when a user clicks for graph generation (or data visualization) so that the potential product owner or respective users of the application can track what they have accessed across their product usage.
- 4. Note: Difference between a user's Preference and History lies at the part where Preference comes as a feature for assistance in working with the system and History as a feature for tracking their Patient Finder data accesses.

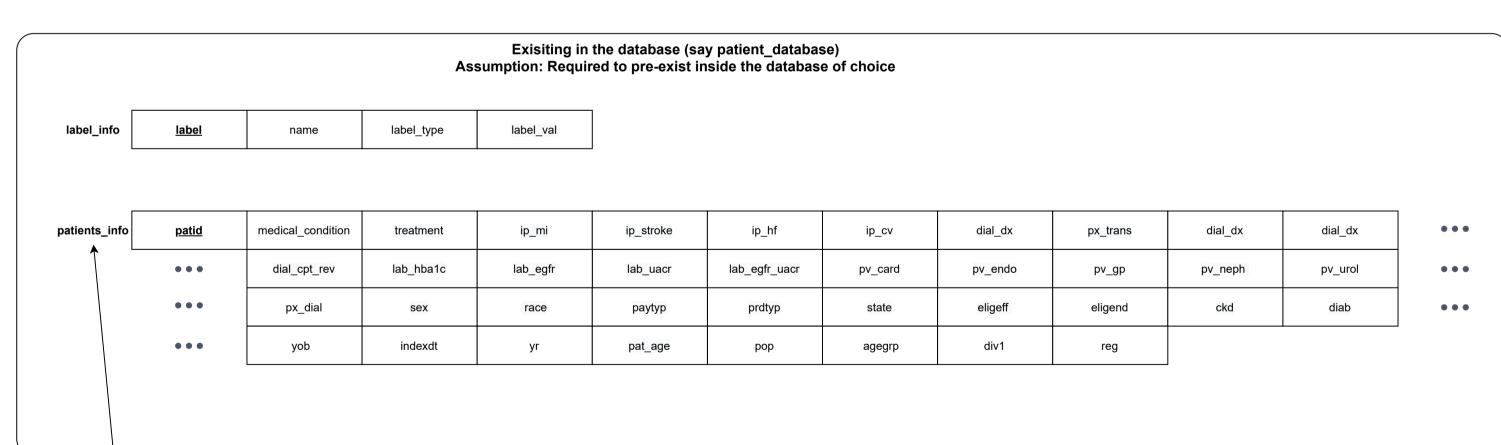
Also, definition of user must include a userid, email, their Full name and a secure password for securely accessing their account. Each time a user gets logged into their account they are generated with a unique accessToken. This user accessToken can be sent to as a authorization mechanism for every action they perform on their account and data accesses. If the access token is mismatch from what's in the database, then the Backend API must not carry out that request as they are marked as *Unauthorized Action* by default.

When a user logs in successfully, they are immediately marked as Logged in (i.e., isLogged becomes true). The time for any last changes made to their account are also saved (as updatedAt). This feature is also consistent for all other entities part of our database.



Database: patient_database (say)





May require
optimizations on schema
by Normalizations
(Design Coming soon)

oughts:

Thoughts:
This optimization can be done by models
designed at Backend API using the ORM
designing.

If feasible in terms of user experience, we can

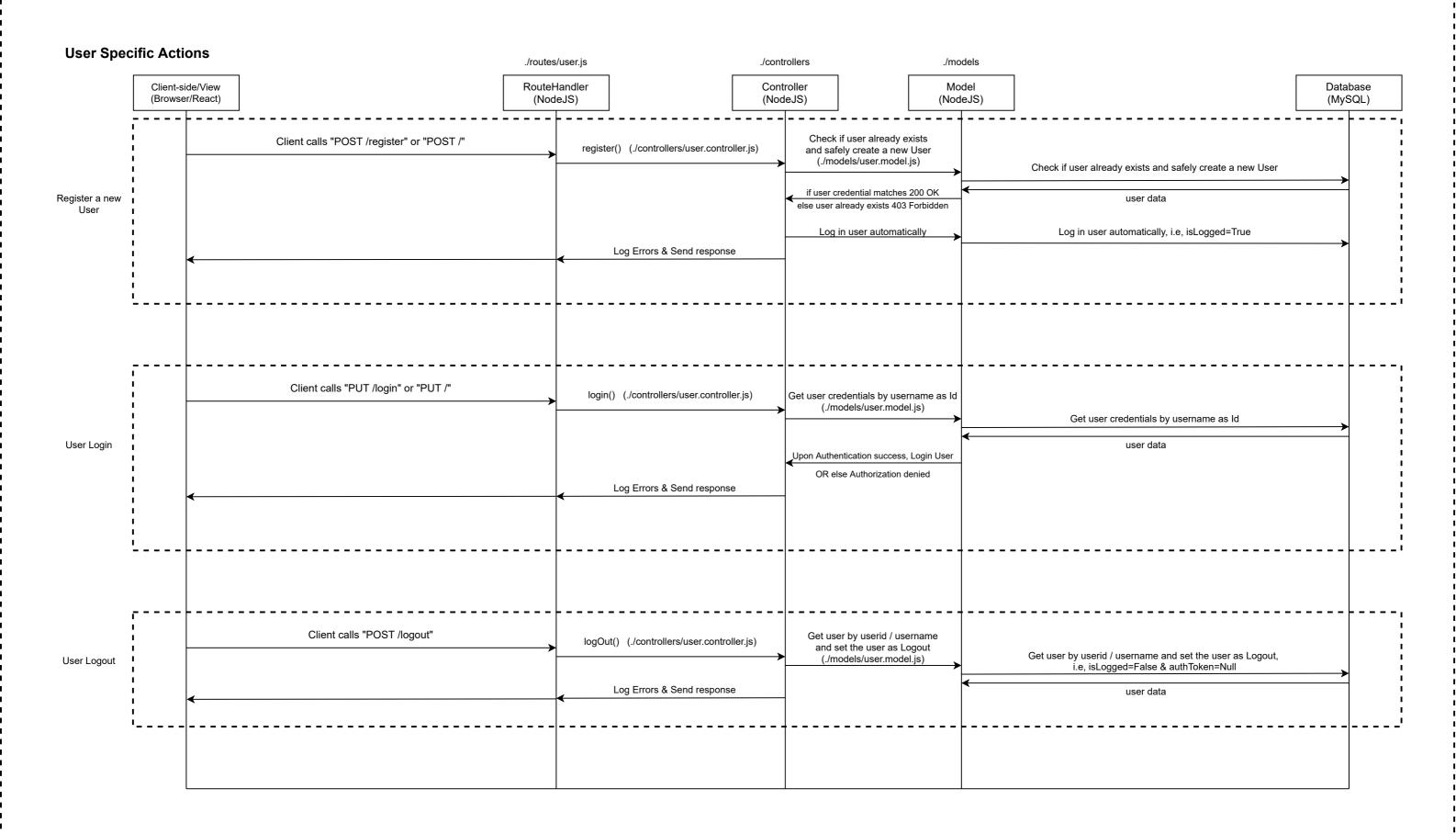
also go for integrating a mini graph displayed for a demo purpose. (Specific for each one of above tabs)

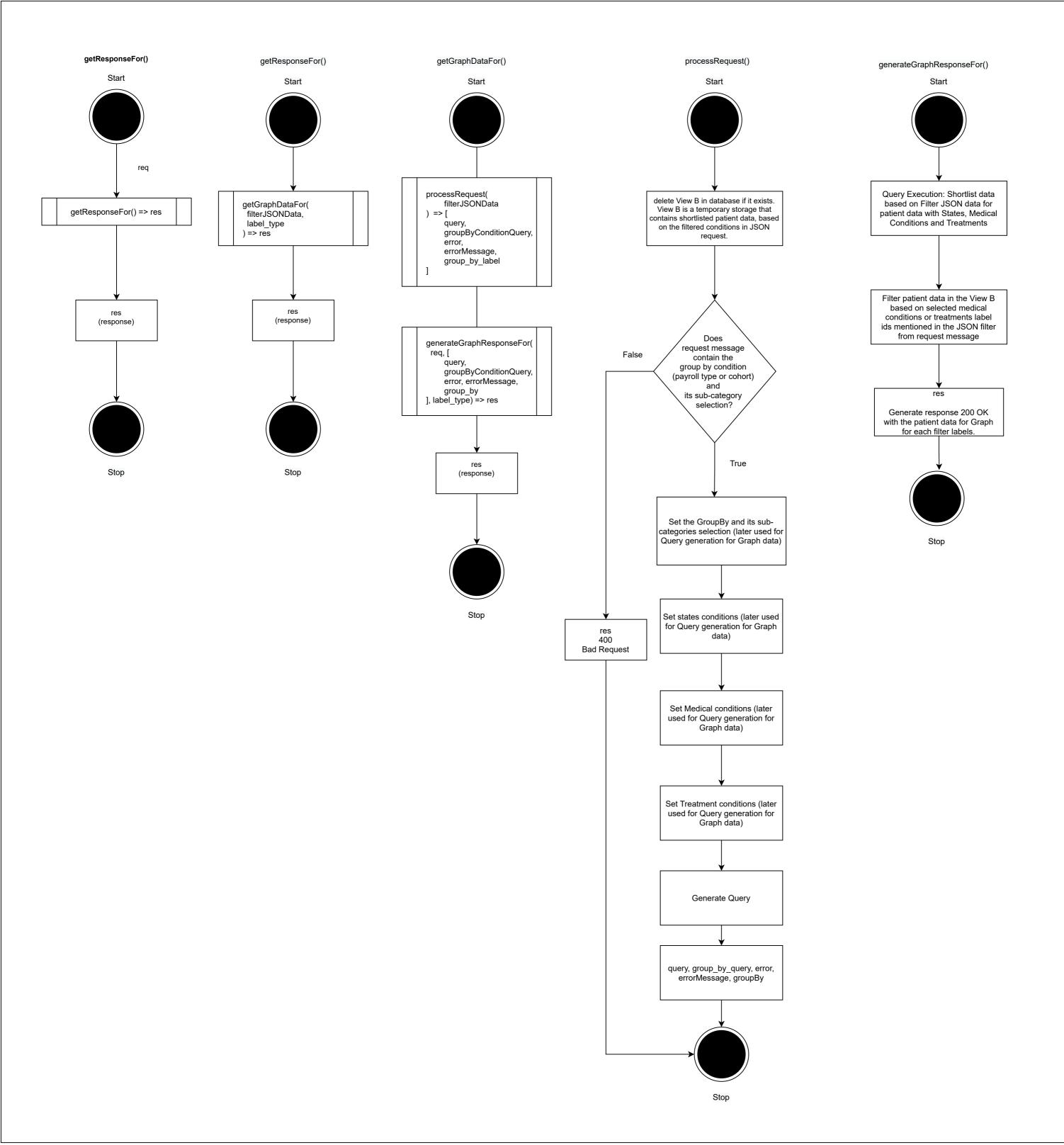
Please note that the scrollbars on fixed to the screen elements are only present to improve screen responsiveness in this design. States: Select Preference Settings: (i) (U) {Application Name} Hello {user}, (u) All States X More options ✓ Preference 1 X V # Any miscellaneous or **Account Settings** All States Patient Finder Introduction User Preferences User History More options ✓ page links for easier **User Preferences** Add New Preference reaching sections can West US Coming User History come in here ... Soon Preference 1 (default) California Logout **Medical Conditions Patient Finder definition** Preference 2 Nevada (dropdown) Preference 3 Select Preference Settings: (i Oregon (dropdown) Preference 1 × V 🖺 + Preference 4 Washington Group patients based on: (i Arizona A "Take a Screenshot" Display Graph here ... Payroll type On Click Update button Colorado 0 Cohort (for Medical Cond. only) Update automatically after Idaho States: (i) On selection selection display Montana (auto submission on change) dynamically All States × ~ Payroll type: (i) Medical Cond. Labels AND: i Medical Cond. Labels OR: (i) Central US We are adding these fields here CMR X MCR X ARB 🗙 Pain X Amenia X Nebraska for user convenience to edit above graph settings. Select Focus Label: (i) Texas Based on the label_type (Medical condition) only Pain X Amenia X ARB X Maximum Screen ------Height till here This form is Fixed to the screen Medications (Treatments) Patient Finder definition Select Preference Settings: Preference 1 X Single selection type only A "Take a Screenshot" Display Graph here ... Group patients based on: (i) On Click Update button Payroll type 0 (for Medications only) Cohort **Current Selection** Scrollbar only applied if the Patient Finder definition Form is not able to get fit along this All States X section with the screen display. Treatment Labels OR: (i Treatment Labels AND: i Multiple Selection type Cohort type: (i) We are adding these fields here ARB 🗙 ARB X Biguanide X for user convenience to edit CKD only X above graph settings. Select Focus Label: (i Based on the label_type (Medications) only Glucose-Lowering Agent × Meglitinide × ARB × Biguanide × A "Form Reset" button Apply request for graph Form values gets reset. generation Ability to start from scratch Fixed to the screen element U {Application Name} Hello {user}, Select Preference Settings: (i) Introduction Patient Finder User Preferences User History More options ✓ Preference 1 X V An "Save As New Preference" button. Background (disabled) Patient Finder definition On click this button will prompt user to Add New Preference Confirm (Yes/No) the new change. Select Preference Settings: (i) Preference 1 (default) Preference 1 × V 🖺 + On click will display this box Preference 2 Group patients based on: (i) **Create New Preferences** Preference 3 Payroll type Cohort Preference 4 Preference Name: (i) An "Edit Preference" button. Are you sure you want to overwrite over your existing States: (i) Caution!: On clicking this button Preference? Default text [input box] will overwrite (update) over All States × **V** existing preference data States: (i) Payroll type: (i) No All States X CMR X MCR X Group patients based on: i Payroll type Cohort Payroll type: (i) If the value for selection becomes CMR × MCR × "Add New Preference", then a dialog box (modal) appears at center for taking in the details related to a new preference creation. Medications **Medical Conditions** On click will Treatment Labels AND: i Treatment Labels OR: (i) display this box Current ARB X Biguanide X V ARB 🗙 Selection (Tab) Select Focus Label: i Glucose-Lowering Agent X ARB X **** What do you want to call your new Preference as? Biguanide X Meglitinide X Preference Name: (i) Default text [input box]

Cancel

No

Do you confirm the changes?





backend/blob/master/documentation/API%20Documentation%20for%20Bayer%20Patient%20Finder.pdf

For References,

Bayer Patient Finder Backend API Documentation:

Bayer Patient Finder Repository for Backend: https://github.com/RPG-coder/bayer-njit-backend

Bayer Patient Finder Repository for Frontend: https://github.com/sp2728/bayer-njit-frontend

https://github.com/RPG-coder/bayer-njit-

More Updates are coming soon.