MinimRED User Manual

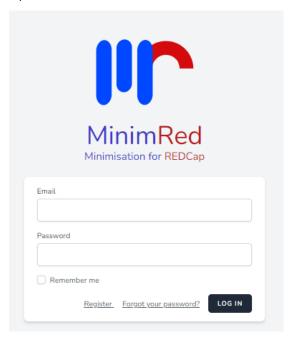


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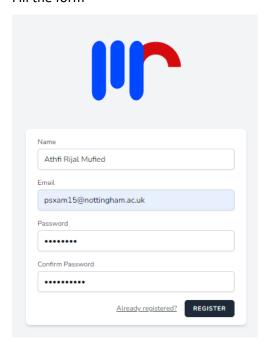
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I. Create new account

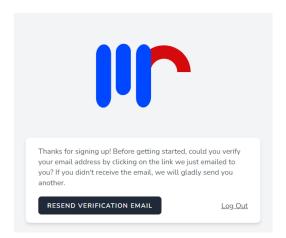
1. Open minimRED



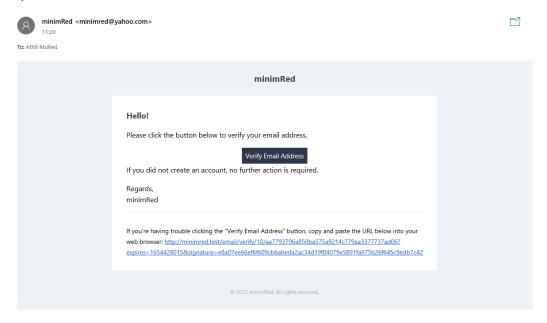
- 2. Click *Register* link
- 3. Fill the form



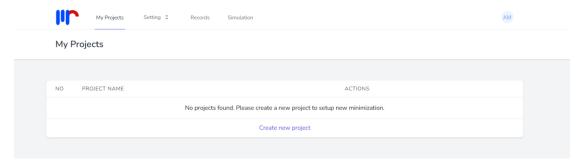
4. Click Register button



5. Open Email verification

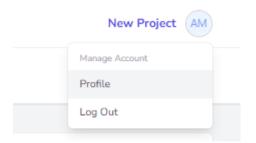


6. Click verify email, you will be logged to minim RED

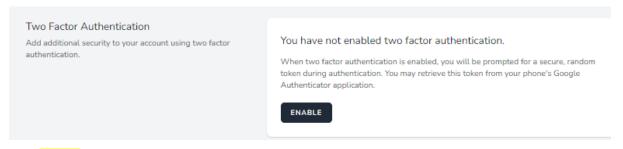


II. Setup two factor authentication

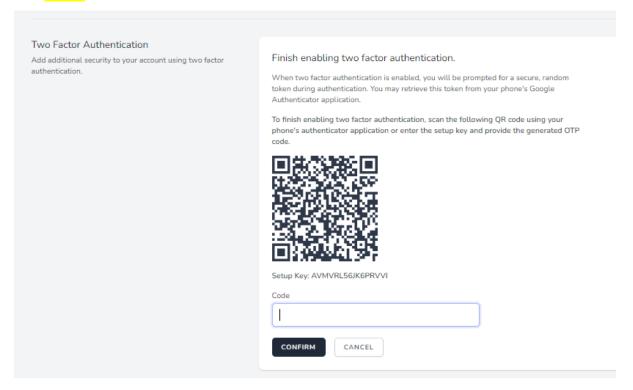
1. Open Profile page



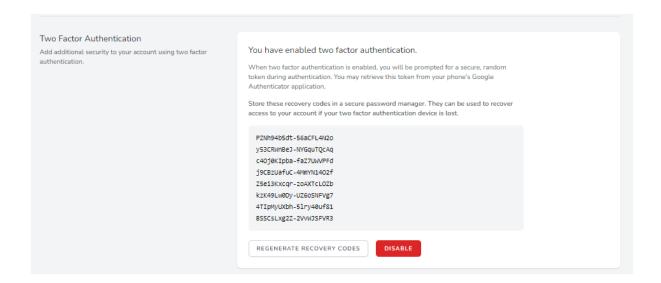
2. Go to "Two Factor Authentication" section



3. Click enable.

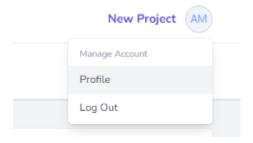


- 4. To finish enabling two factor authentication, scan the following QR code using your phone's authenticator application or enter the setup key and provide the generated OTP code.
- 5. Store the recovery codes in a secure password manager.

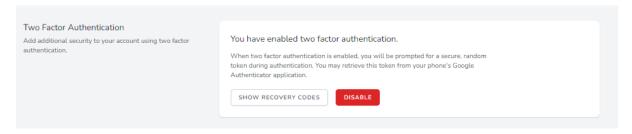


III. Disable two factor authentication

1. Open Profile page



Go to "Two Factor Authentication" section



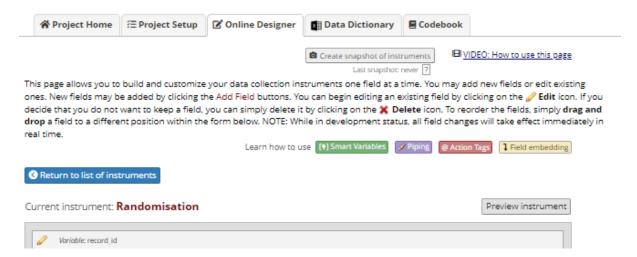
3. Click *Disable*

IV. Prepare minimisation in REDCap

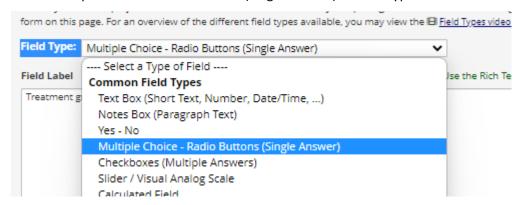
Before you can create minimisation in minimRED, you need to set up a few things in the REDCap database. The first is to add radio fields in REDCap to store randomization results. The second is to add radio fields in the REDCap database to collect data on prognostic factors. The third is getting the REDCap API token and URL.

A. Add treatment allocation field in REDCap

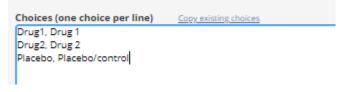
1. Open Online designer in REDCap then select the desired form



- 2. Add new fields
- 3. Select multiple Choice Radio Buttons (Single Answer) as Field type



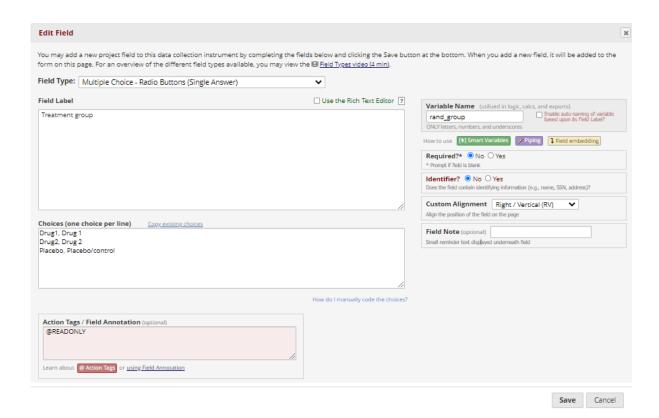
4. Put the treatment groups and treatment code as list of choices



5. We recommend that this field be set as read only so that the allocation treatment can only be done using minimRED



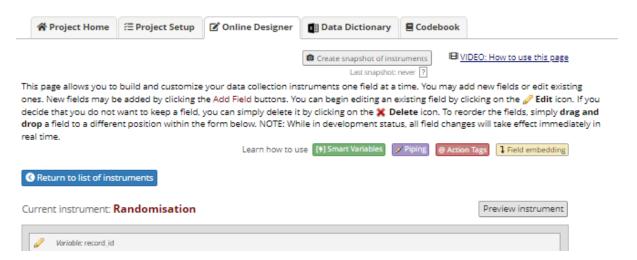
6. Click save



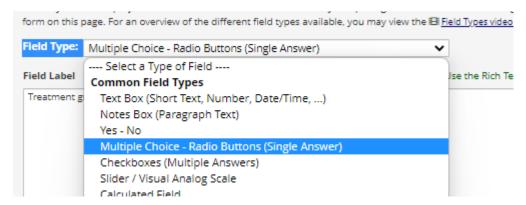
B. Add prognostic factors in REDCap

At least one prognostic factor is required for minimisation and each factor have at least two levels.

1. Open Online designer in REDCap then select the desired form



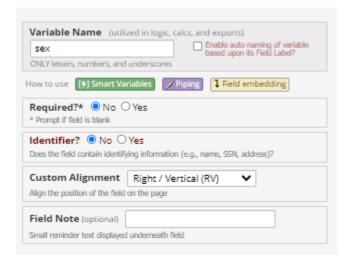
- Add new fields
- 3. Select multiple Choice Radio Buttons (Single Answer) as Field type



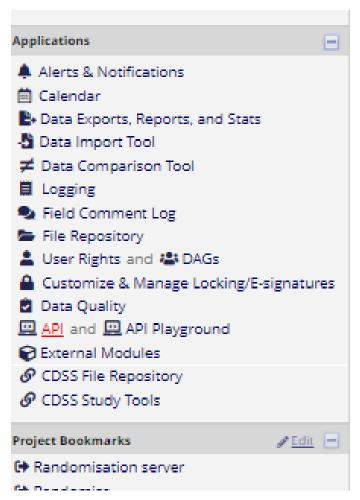
4. Put factor levels as list of choices. For example the Sex has two levels: Male and Female so we set the list as:



5. Set the field to required



- 6. Repeat step 1 to 5 to add other prognostic factors
- C. Get REDCap API token and REDCap API URL
 - 1. Open REDCap API



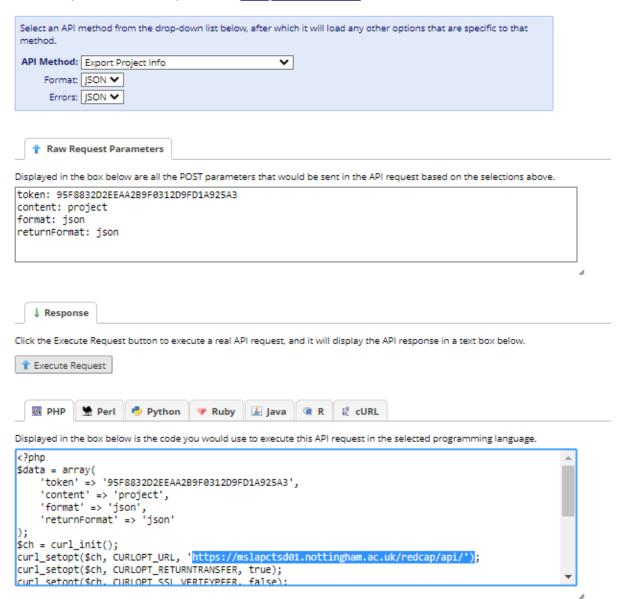
2. Generate REDCap API token



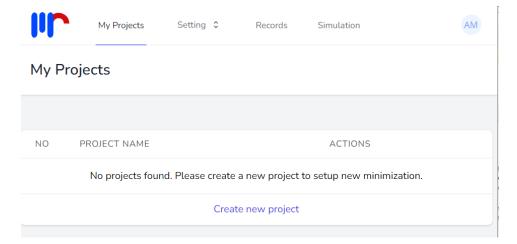
- 3. Open API Playground
- 4. Find the REDCap API URL

API Playground

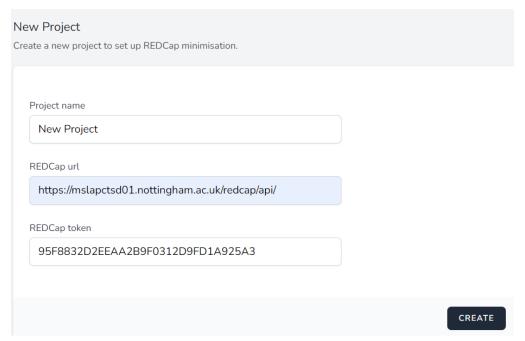
The API Playground is an interface that allows experimentation with the REDCap API without actually writing any code. You can explore all the different API methods and their various options to customize a given API request. You may even execute a real API request and see the exact response that REDCap returns from the request. If you are interested in creating an API script, the section at the bottom will provide code samples for various programming languages to give you a head start. For details on the capabilities of the REDCap API and how to use it, please see the REDCap API documentation.



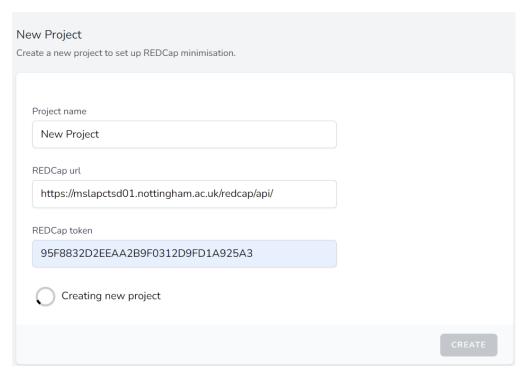
- D. Create new project in minim RED
 - 1. Login to minimRED
 - 2. Click Create new project



3. Fill the form. Use the REDCap API and REDCap API URL from REDCap database



4. Click *Create* button



5. If successfully created, you will be redirected to minimisation setting page

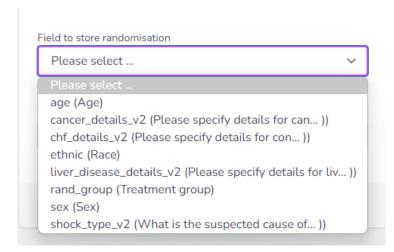
Minimisation setting

Project successfully created! Next, use this page to setup minimisation.

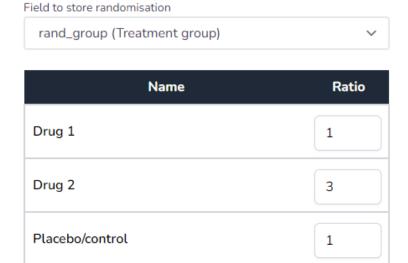
E. Minimization setup

Group allocation

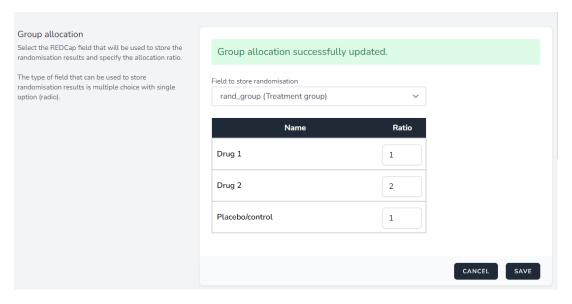
- 1. Go to "Group allocation" section
- 2. Select a field to store the randomisation result



3. Set allocation ratio of each treatment group

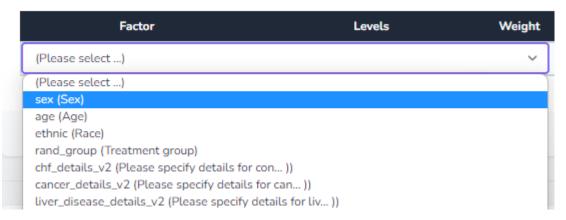


4. Click Save

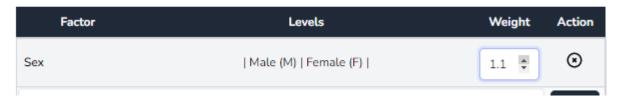


Prognostic factors

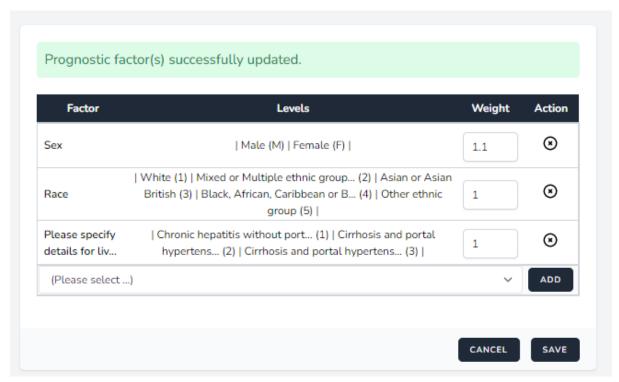
- 1. Go to "Prognostic factors" section
- 2. Select redcap field that will be used as prognostic factor



- 3. Click add
- 4. Set weighted ratio

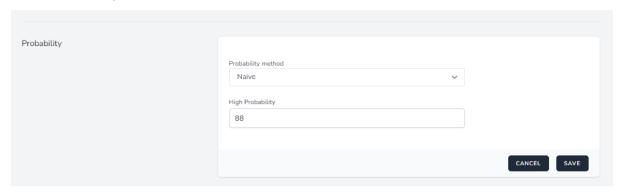


- 5. Repeat step 2-4 to add other factors
- 6. Click save



Probability

1. Go to "Probability" section



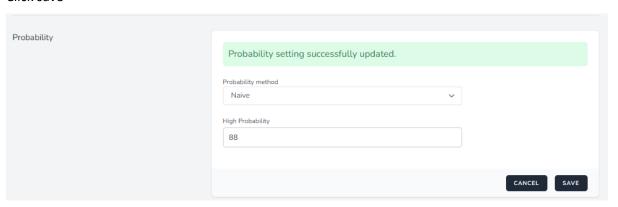
2. Select Probability method



3. Set High Probability value

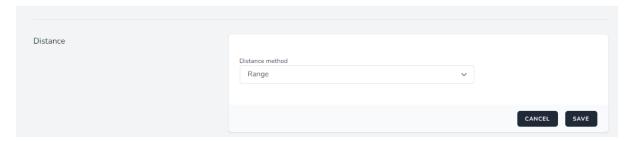


4. Click save

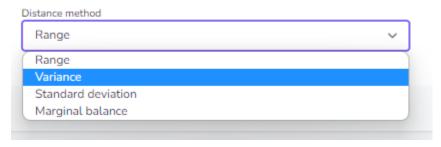


Distance

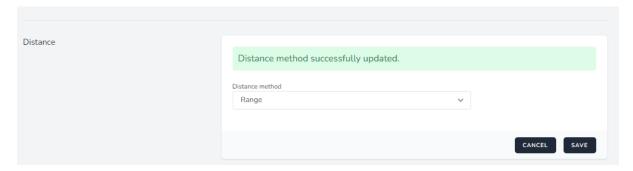
1. Go to "Distance" section



2. Select distance method



3. Click save

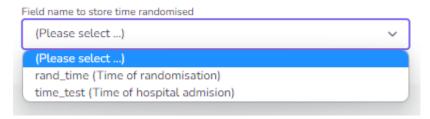


Time randomised

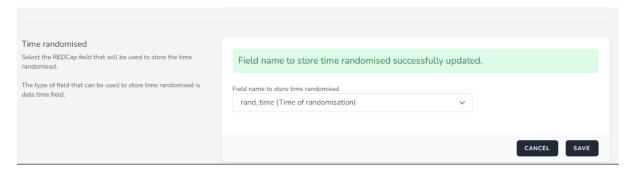
1. Go to "Time randomised" section



2. Select Field name to store time randomised



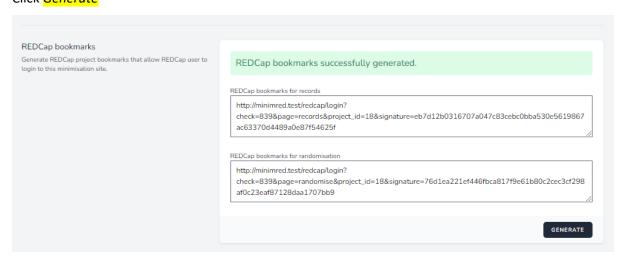
3. Click save



V. Add minimRED Bookmark to REDCap

A. Generate REDCap bookmarks

- 1. Open minimRED
- 2. Open setting->project
- 3. Go to "REDCap bookmarks" section
- 4. Click Generate



B. Add REDCap bookmark to REDCap project

1. Open REDCap

2. Go to Project Bookmark edit page



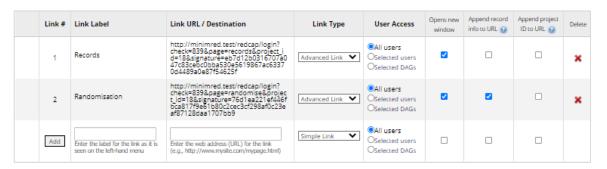
3. Fill the form using generated REDCap bookmark from minimRED. Select link type as "Advanced Link". For randomisation bookmark, activate the "Append record to URL"



4. Click add



5. Repeat step 3 and 4 to add another bookmark



6. The redcap bookmark link displayed in the left hand menu under Project Bookmarks in REDCap

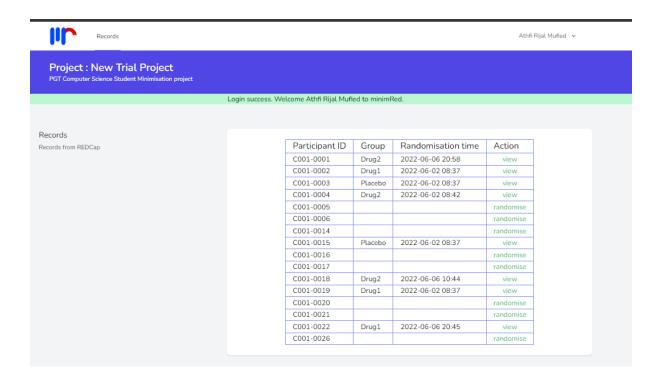


VI. Login to minimRED as REDCap user

- 1. Login to REDCap
- 2. Open REDCap project
- 3. Click the Project Bookmark on the left-hand menu



4. You are logged to minimRED as REDCap User

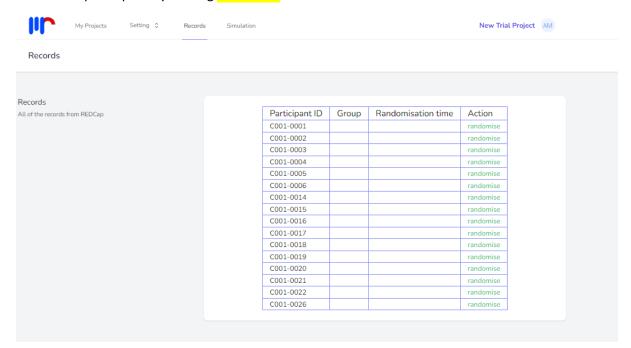


VII. Randomise New Participants

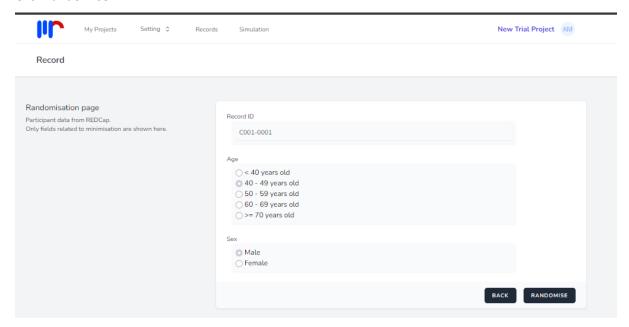
1. Open records page



2. Select new participant by clicking randomise link

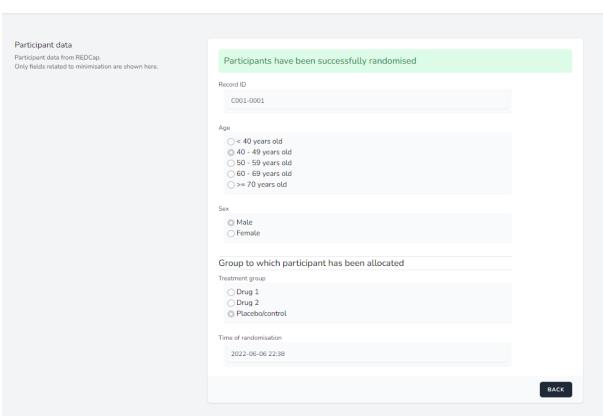


3. Click randomise



4. New participant randomised successfully

Record



VIII. Simulate minimisation

1. Open Simulation page



- 2. Wait until simulation done
- MinimRED will show the simulation result

