

Build a Frame with Dune API

How to build a Farcaster Frame using Frog and Dune API

This guide provides a step-by-step process on using typescript and Dune API to create a user recommendation frame for Farcaster. You can find a [live example of the frame here](#). The youtube video below walks through it in detail:

Set up your environment with the example repo

[Fork this repo](#) and then run `npm install -g frog and npm install` to get all your packages. If you don't have npm set up, then [go download node.js first](#). Once installations are finished, try running `npm run dev` and it should take you to a localhost environment at <http://localhost:5173/api>.

Next, you'll need to get a Dune API key from [your user settings](#) and set it in an .env file. With that done, you'll be able to run the frame - click "See From Your Followers" in your localhost environment.

Explaining the Dune API function

We call the Dune API in the `/api/dune.ts` file in the `getRecommendations(fid)` function [defined here](#).

Below is the main API call, which makes a [FILTER](#) call on an [existing result set](#). Using filters, we get our results in 20-30ms instead of rerunning the whole query (which may take 10-20 seconds).

Copy `//schedule` the query on a 6 hour interval, and then fetch by filtering for the user fid within the query results `//dune query` where each row is a unique fid and each column is a recommended set of users: `https://dune.com/queries/3509966` `const meta= { "x-dune-api-key": DUNE_API_KEY || "" } ; const header= new Headers (meta) ; const latest_response= await fetch (https://api.dune.com/api/v1/query/3509966/results?&filters=query_fid= { fid} //filter for single fid , { method : 'GET' , headers : header, }) ; const body= await latest_response . text () ; const recs= JSON . parse (body) . result . rows [0] ; //will only be one row in the result, for the filtered fid You can write your own aggregation queries in the same format, and then use filters to make the API fast enough for app/frame development. Good luck!`

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