BIN COLLECTION REMINDER

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Functional Description

The bin collection reminder checks the county’s council website for the current week’s collection bin color and the day of collection. It then creates an event on the user’s calendar and sends an email to the user.

Required Functions

Google login

A “Sign in with Google” option in the login page where the user can sign in with their Google email and password. The app then requests access to the user’s calendar.

Create event in user’s google calendar

A task that gets executed in the weekly job. The app finds the Google account of the user that set the reminder and creates an event on their calendar.

send email to user

A task that gets executed in the weekly job. The app gets the email address of the user that set the reminder and sends them an email on the details of the current week’s bin collection.

non-google login

Default login option on the login page. Uses Django’s backend for authentication.

Scrape the Council’s site

The app needs to scrape “<https://www.southlanarkshire.gov.uk/directory_record/584505/telford_road_east_kilbride>” for the waste types:

1. Non Recyclable waste – Green/Black
2. Food and Garden – Brown
3. Paper and card – Blue
4. Glass, cans and plastic – Grey

The bin colour and the collection date is passed on to send the user email and/or create an event in the user’s calendar.

Task scheduler

Use Heroku scheduler to run Django task every Monday at 12am.

Milestones

1. User can login using non-Google option.
2. User can login using Google account.
3. App is able to scrape site for relevant details.
4. App able to send email to user.
5. App is able to create an event in user’s Google calendar.
6. Job scheduled to run every week.

***This spec is not complete***