

New Releases Notifier #2

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Recap

 Crawl new versions of libraries on the Google Maven server:

https://dl.google.com/dl/android/maven2/index.html

- Create a cron job for the crawling tool
- Build a Slack plugin to send new release notifications to our Slack channel

Build with Cron

- Install Cron to the project with NPM.
- Setup the Cron task with a schedule.

```
npm install cron
```

```
var CronJob = require('cron').CronJob;

new CronJob('* * * * * * *', function() {
   console.log('You will see this message every second');
});
```

Build with Cron

```
{} config.json
▶ migrations
JS component.js
 JS index.js
 JS version.js
node_modules
▶ public
JS index.js
 Js users.js
JS cron.js
 JS scrape.js
 Js slack.is
▶ views
.editorconfig
.gitignore
Js app.js
deploy_heroku.sh
1 LICENSE
local_deploy.sh
{} package-lock.json
{} package.json

    README.md
```

```
// app.js

const cronServices = require('./services/cron');
const scrapeService = require('./services/scrape');

cronServices.startCron(function() {
   scrapeService.startScrape();
});
```

Build with Cron

```
config
 {} config.json
migrations
JS component.js
 JS index.js
 Js version.js
node_modules
▶ public
Js index.js
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JS cron.js
 JS scrape.js
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1 LICENSE
local_deploy.sh
{} package-lock.ison
package.json
```

(i) README.md

```
• • •
'use strict';
const env = process.env.NODE_ENV || 'development';
const config = require('../config/config.json')[env];
const CronJob = require('cron').CronJob;
function startCron(callback) {
  if(config.cron.enable) {
   const job = new CronJob(config.cron.schedule, function() {
     console.log('\n#############################;);
     console.log('###########
                                 Start Cron
                                               #########";
     console.log('###############################\n');
     callback();
   });
   job.start();
module.exports = {
   startCron: startCron
```

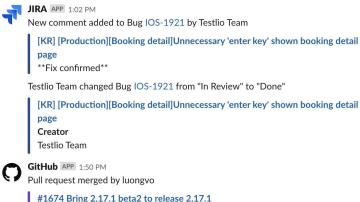
```
// config/config.json

{
    "production": {
        "cron": {
            "enable": false,
            "schedule": "0 */3 * * * * *"
      }
    }
}
```

Build Slack app

- Slack app?
- How can we send a message from our backend into our Slack workspace channels?





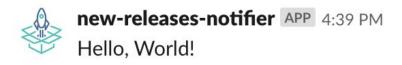
redplanethotels/rphl-android-app | Today at 1:24 AM

🔸 Incoming Webhooks 🗸 Web API 🤔

Build Slack app

- Create a Slack app from https://api.slack.com/apps?new_app=1
- Add features and functionality: *Incoming Webhooks*
- Dev: #slack-apps-testing
- Prod: <u>#new-releases-activity</u>

```
curl -X POST -H 'Content-type: application/json' --data '{"text":"Hello, World!"}'
https://hooks.slack.com/services/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
```



Configure permissions: chat:write:bot

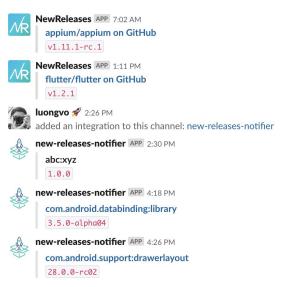
Build Slack app

- Call webhook request whenever a new release is detected by cron
- Formatting slack message by
 https://api.slack.com/docs/message-formatting
- Add hyperlink in slack message to open google search for that library and version (while waiting for the release note feature added) \(\overline{\overlin

https://www.google.com/search?as_q=com.android.support:drawer layout:28.0.0-rc02%20release%20notes%20site:developer.android.c om

Conclusion

- Cron job is running every 3 mins for new release checking (will be per day after demonstration :troll:)
- Whenever a new release is detected, a slack notification will be sent to:
 #new-releases-activity



Next Steps

- Migrate the current webhook incoming messages to the Web API https://api.slack.com/web and use the postMessage method instead https://api.slack.com/methods/chat.postMessage
- Create a website to display the cron status.
- Try to fetch the release note from the Google official sites and display the release note in the Slack message.

Thanks!

Contact Nimble

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