

## Reading



### Description

Congratulations on passing the initial screening and moving to the next phase of your application process. We are thrilled that you are interested in joining HCS and are looking forward to seeing what you can accomplish. The following challenge will help us understand your overall experience level and ability to complete tasks that will be similar to your daily job.

### Challenge details

Your goal is to build an integration tool that loads data from a CSV file, schedules some email communications, and then executes automated tests to ensure all data and logic was executed correctly.

Here is the sample data file:

```
Program Identifier|Data Source|Card Number|Member ID|First Name|Last  
Name|Date of Birth|Address 1|Address 2|City|State|Zip code|Telephone  
number|Email Address|CONSENT|Mobile Phone  
50777445|WEB 3RD PARTY|342121211|43233|LOAD|TEST 0|04/29/2000|3100 S  
Ashley Drive||Chandler|AZ|85286||test0@humancaresystems.com|Y|1234567912  
50777445|WEB 3RD PARTY|564232340|12045|LOAD|TEST 1|03/20/1969|3100 S  
Ashley Drive||Chandler|AZ|85286||test1@humancaresystems.com|Y|1234567890  
50777445|WEB 3RD PARTY|564232341|12145|LOAD|TEST 2|03/01/1969|3100 S  
Ashley Drive||Chandler|AZ|85286||test2@humancaresystems.com|Y|6177504302  
50777445|WEB 3RD PARTY|564232342|12245|LOAD|TEST 3|03/02/1969|3100 S  
Ashley Drive||Chandler|AZ|85286||test3@humancaresystems.com|Y|6177504303  
50777445|WEB 3RD PARTY|564232343|12445|LOAD|TEST 4|03/03/1969|3100 S  
Ashley Drive||Chandler|AZ|85286||test4@humancaresystems.com|N|6177504384  
50777445|WEB 3RD PARTY|564232344|13245|LOAD|TEST 5|03/04/1969|3100 S  
Ashley Drive||Chandler|AZ|85286||test5@humancaresystems.com|N|6177504305  
50777445|WEB 3RD PARTY|564232345|14545|LOAD|TEST 6|03/05/1969|3100 S
```

## Creating Git repo

# Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository](#).

## Repository template

Start your repository with a template repository's contents.

No template ▾

Owner \*



andresij ▾

Repository name \*

/ hcs



Great repository names are short and memorable. Need inspiration? How about [congenial-bassoon](#)?

Description (optional)

Human Care Systems Test



Public

Anyone on the internet can see this repository. You choose who can commit.



Private

You choose who can see and commit to this repository.

Initialize this repository with:

Skip this step if you're importing an existing repository.

☒ Add a README file

This is where you can write a long description for your project. [Learn more](#).

☒ Add .gitignore

Choose which files not to track from a list of templates. [Learn more](#).

.gitignore template: Node ▾

## Create local copy

```
192:repos aijelman$ git clone https://github.com/andresij/hcs.git
Cloning into 'hcs'...
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (4/4), done.
192:repos aijelman$
```

## Sample file & project init

```
1 Program Identifier|Data Source|Card Number|Member ID|First Name|Last Name|Date of Birth|Address 1|Address 2|City|State|Zip code|
2 50777445|WEB 3RD PARTY|342121211|43233|LOAD|TEST 0|04/29/2000|3100 S Ashley Drive||Chandler|AZ|85286||test0@humancareystems.com|
3 50777445|WEB 3RD PARTY|564232340|12045|LOAD|TEST 1|03/20/1969|3100 S Ashley Drive||Chandler|AZ|85286||test1@humancareystems.com|
4 50777445|WEB 3RD PARTY|564232341|12145|LOAD|TEST 2|03/01/1969|3100 S Ashley Drive||Chandler|AZ|85286||test2@humancareystems.com|
5 50777445|WEB 3RD PARTY|564232342|12245|LOAD|TEST 3|03/02/1969|3100 S Ashley Drive||Chandler|AZ|85286||test3@humancareystems.com|
6 50777445|WEB 3RD PARTY|564232343|12445|LOAD|TEST 4|03/03/1969|3100 S Ashley Drive||Chandler|AZ|85286||test4@humancareystems.com|
7 50777445|WEB 3RD PARTY|564232344|13245|LOAD|TEST 5|03/04/1969|3100 S Ashley Drive||Chandler|AZ|85286||test5@humancareystems.com|
8 50777445|WEB 3RD PARTY|564232345|14545|LOAD|TEST 6|03/05/1969|3100 S Ashley Drive||Chandler|AZ|85286||test6@humancareystems.com|
9 50777445|WEB 3RD PARTY|564232346|15245|TEST 7|03/06/1969|3100 S Ashley Drive||Chandler|AZ|85286||test7@humancareystems.com|Y|61
10 50777445|WEB 3RD PARTY|564232347|15545|LOAD|TEST 8|03/07/1969|3100 S Ashley Drive||Chandler|AZ|85286||test8@humancareystems.com|
11 50777445|WEB 3RD PARTY|564232348|16445|LOAD|TEST 9|03/08/1969|3100 S Ashley Drive||Chandler|AZ|85286||test9@humancareystems.com|
12 50777445|WEB 3RD PARTY|564232349|16345|TEST 10|03/09/1969|3100 S Ashley Drive||Chandler|AZ|85286||test10@humancareystems.com|N
13 50777445|WEB 3RD PARTY|564232350|16245|LOAD|TEST 11|03/10/1969|3100 S Ashley Drive||Chandler|AZ|85286||Y|6177504311
14 50777445|WEB 3RD PARTY|564232365|17445|LOAD|TEST 12|03/11/1969|3100 S Ashley Drive||Chandler|AZ|85286||test12@humancareystems.c
15 50777445|WEB 3RD PARTY|564232363|17345|LOAD|TEST 13|03/12/1969|3100 S Ashley Drive||Chandler|AZ|85286||test13@humancareystems.c
16 50777445|WEB 3RD PARTY|564232360|19845|LOAD|TEST 14|03/13/1969|3100 S Ashley Drive||Chandler|AZ|85286||test14@humancareystems.c
17 50777445|WEB 3RD PARTY|564232423|4542323|LOAD|TEST 15|04/29/2000|3100 S Ashley Drive||Chandler|AZ|85286||test15@humancareystems
18 50777445|BENCHMARKS|56221312|32323|LOAD|TEST 16|04/28/2001|3100 S Ashley Drive||Chandler|AZ|85286||test16@humancareystems.com|Y
19 50777445|WEB 3RD PARTY|53434323|12345|LOAD|TEST 17|04/29/1987|3100 S Ashley Drive||Chandler|AZ|85286||test17@humancareystems.c
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
git192:hcs aijelman$ git add .
192:hcs aijelman$ git commit -m "Sample File init"
```

## Generate package.json

```
192:hcs aijelman$ npm init
This utility will walk you through creating a package.json file.
It only covers the most common items, and tries to guess sensible defaults.

See `npm help init` for definitive documentation on these fields
and exactly what they do.

Use `npm install <pkg>` afterwards to install a package and
save it as a dependency in the package.json file.

Press ^C at any time to quit.
package name: (hcs)
version: (1.0.0)
description: Human Care System Exam
entry point: (index.js) node.js
test command: mocha
git repository: git+https://github.com/andresij/hcs.git
keywords:
author: Andres Ijelman
license: (ISC)
```

Install packages :

```
{ } package.json ×
{ } package.json > { } dependencies > abc csv-parse
17   "url": "https://github.com/andresij/hcs/issues"
18 },
19   "homepage": "https://github.com/andresij/hcs#readme",
20   "dependencies": {
21     "csv-parse": "^4.15.3",
22     "dotenv": "^8.2.0",
23     "lodash": "^4.17.21",
24     "mocha": "^8.3.2",
25     "mongodb": "^3.6.6"
  },
  "scripts": {
    "test": "mocha node.test.js",
    "start": "node node.js"
  }
}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

The default interactive shell is now zsh.  
To update your account to use zsh, please run `chsh -s /bin/zsh`.  
For more details, please visit <https://support.apple.com/kb/HT208050>.  
192:hcs ajelman\$ npm install mochacsv-parse

csv-parse for parsing the flat file  
dotenv for keeping all configurations in .env file  
lodash for doing json objects comparison  
mocha for automated testing  
mongodb for connecting to mongo database

Configure automated scripts:

```
"scripts": {
  "test": "mocha node.test.js",
  "start": "node node.js"
},
```

Configure npm scripts and create files .env, node.js and node.test.js