Document scope:

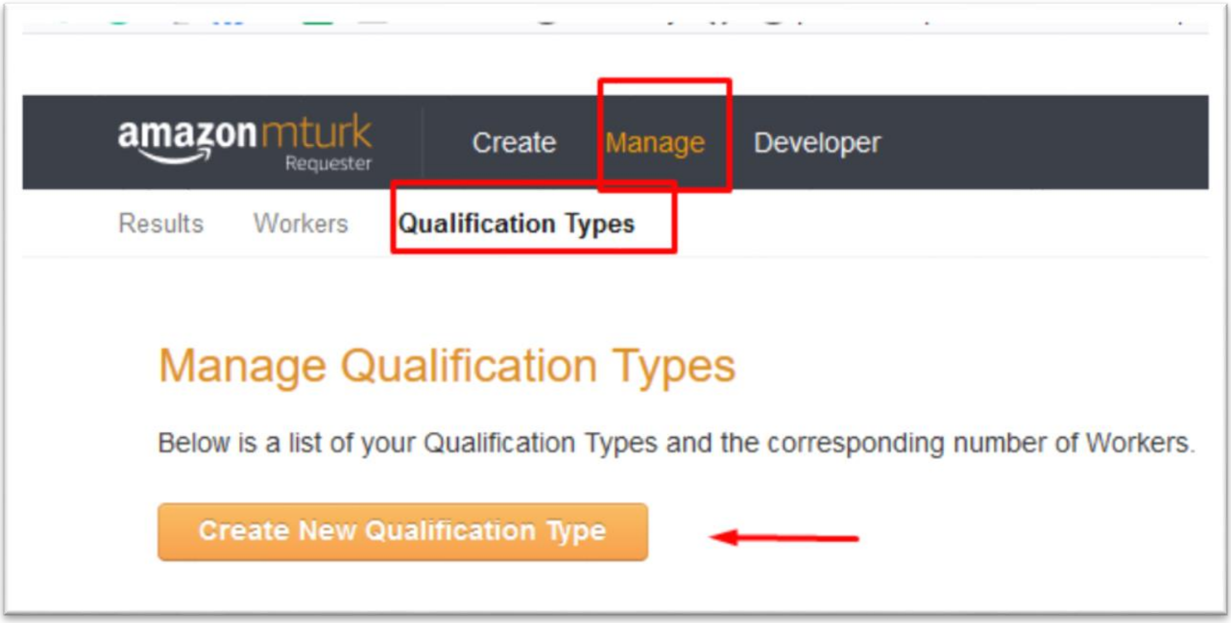
provide a brief set of instructions how to go from Batch_3824355_batch_results_output.csv to publishing the batch

Step 1: Assign custom qualification to the accepted workers

Step.1.1. Create custom qualification (Note: one-time step, if qualification exist, you do not need to do this step).

From requester account:

- Go to **"Manage" > "Qualification Types" > "Create New Qualification Type"**


amazon mturk
Requester
Create
Manage
Developer
Results
Workers
Qualification Types
Manage Qualification Types
Below is a list of your Qualification Types and the corresponding number of Workers.
Create New Qualification Type

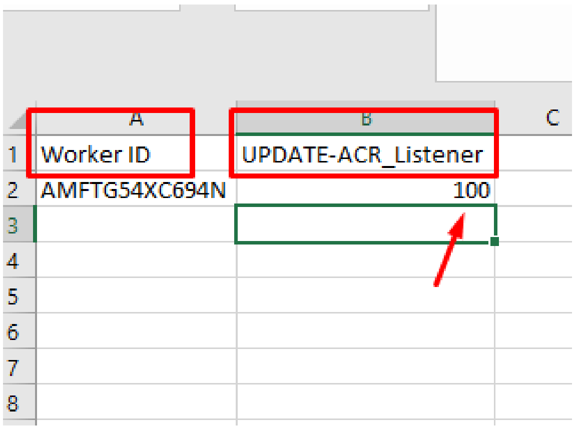
- Add a name: "ACR_Listener" and description: "XYZ" (Note: workers see descriptions, so write something like "You are qualified to perform Listening Only Test -ACR"). And click OK.
- After a while (30sec), it will show up in the list
- You have created the qualification type.

Step1.2. Assign the existing qualification type to accepted workers

From requester account:

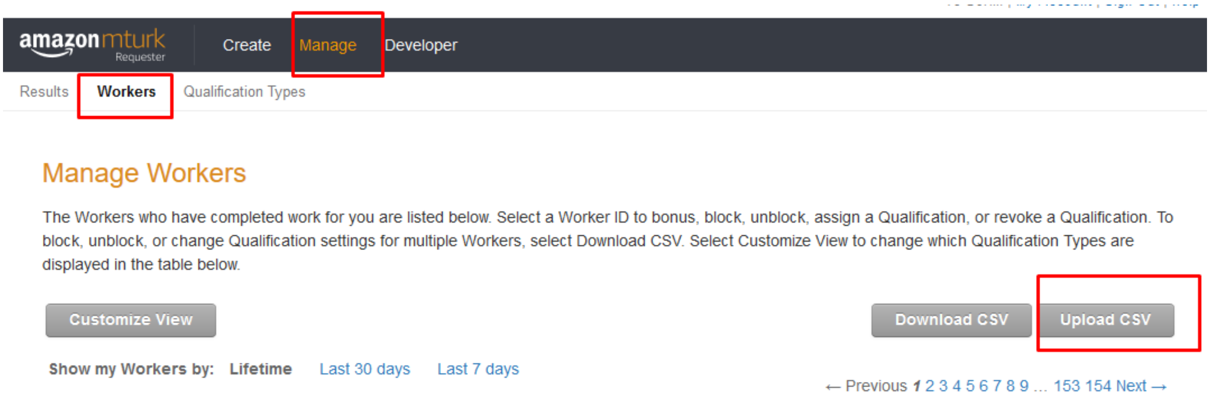
- Open the "Batch_3824355_batch_results_output.csv" file and edit it to have following fields: (change WorkerId → Worker ID, Add a column "UPDATE-ACR_Listener", and add value 100[1] for all workers in that column). Save the file.

[1] Any other number is also working, just use the same number in step3 - Worker requirements



	A	B	C
1	Worker ID	UPDATE-ACR_Listener	
2	AMFTG54XC694N	100	
3			
4			
5			
6			
7			
8			

- Go to **“Manage” > “Workers” > “Upload CSV”**

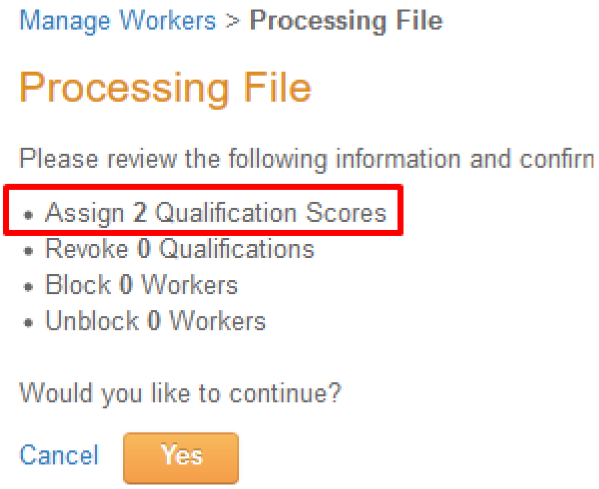


Manage Workers

The Workers who have completed work for you are listed below. Select a Worker ID to bonus, block, unblock, assign a Qualification, or revoke a Qualification. To block, unblock, or change Qualification settings for multiple Workers, select Download CSV. Select Customize View to change which Qualification Types are displayed in the table below.

Customize View
Download CSV
Upload CSV
Show my Workers by: Lifetime Last 30 days Last 7 days
← Previous 1 2 3 4 5 6 7 8 9 ... 153 154 Next →

- Use the “Browse” button and upload the new “Batch_3824355_batch_results_output.csv”
- Click on “Yes” to assign the qualification.



Manage Workers > Processing File

Processing File

Please review the following information and confirn

- Assign 2 Qualification Scores
- Revoke 0 Qualifications
- Block 0 Workers
- Unblock 0 Workers

Would you like to continue?

Step2: Prepare prerequisites

In this step you create and/or upload clips and other assets required for creating the HIT. All assets should be uploaded in a server made publicly available. It is recommended to use any CDN services as well to make sure data are reachable for your participants.

Step 2.1. Create trapping stimuli

Use script “create_trapping_stimuli” from hitapp_p808/Scripts:

- **Edit “**hitapp_p808/Scripts/cfgs_and_inputs/trapping.cfg” if needed
  - **“input_directory= trapping”** it means all information will be find in a “trapping” directory. The “trapping” directory should contains three sub-directories: 1. messages, 2. source, 3. output. The directory path is relative to the scripts path. As a result, the script will look for following structure:

```
.
+-- create_trapping_stimuli.py
+-- trapping
|   +--messages
|       +--ACR_Bad_short.wav
|       +--ACR_Poor_short.wav
|       +--ACR_Fair_short.wav
|       +--ACR_Good_short.wav
|       +--ACR_Excellent_short.wav
|   +--source
|       +-- clip1.wav
|       +-- clip2.wav
|       +-- ….
|   +--output
```

- Some clips from the dataset understudy in to trapping/source folder. Make sure it includes samples from every speaker, and different quality levels.
- Empty trapping/output directory: the trapping dataset will be created here
- **Run the script:**
  - **First check if requirements are installed:**

    ```
    pip install -r create_trapping_stimuli_requirements.txt
    ```
  - **Run the script**

```
    python create_trapping_stimuli.py --cfg
cfgs_and_inputs/trapping.cfg
```

- Check the trapping/output directory: 5 clips per each source clip are created. In addition, “output_report.csv” which contains the correct answer for each clip.
-

Step 2.2. Upload all resources

Create a csv file “row_input.csv”: use a template given in ‘hitapp_p808\P808Template\test input\row_input_template.csv’

- trapping dataset
  - upload the trapping dataset into your server.
  - Insert their URLs into the column “trapping_clips“ of “row_input.csv”
  - Insert their corresponding correct answer into column “trapping_ans” of “row_input.csv” (Note: you can find the correct answers in output_report.csv which was generated by “create_trapping_stimuli” script)

- Rating clips:
  - Upload your complete dataset into your server
  - Insert their URLs into column “rating_clips” of “row_input.csv”
- Gold standard clips:
  - Select and upload your gold-standard clips into your server
  - Insert their URLs into column “gold_clips” of “row_input.csv”
- Math questions:
  - Upload all clips in ‘\P808Template\assets\clips\math’ into your server
  - Insert their URLs into column “math” of “row_input.csv”
- Environment Test (setup section /pair comparison)
  - Upload all clips in ‘\P808Template\assets\clips\sample_jnd’ into your server
  - Insert URLs of files ‘50*.wav’ in ‘pair_a’ and ‘42*.wav’ into column “pair_b” of “row_input.csv”
  - Note: each row should match i.e. belonging to same speaker e.g. ‘42S_female1.wav’ and ‘50S_female1.wav’
- Training
  - Upload your training clips into your server
  - Insert their URLs into the ACR.html file (var config[‘trainingUrls’]).
  - In case you want to have a trapping question in the training:
    - Insert its URL also into the config[‘knownQuestionInTrainingUrl’]
    - Insert its correct answer into the config[‘knownQuestionInTrainingAns]
- Other resources
  - Following resources should be also uploaded into a server and their URL should be changed in the ACR.html
  - Volume setting: ‘hitapp_p808\P808Template\assets\clips\signal_level.wav’
  - Image in Instruction: “hitapp_p808\P808Template\assets\img\process_2.png”
  - Image in setup: “hitapp_p808\P808Template\assets\img\ attention.pn”

Step 3: create input.csv

- **Use script “create_input_acr” from hitapp_p808.**

The script needs two input files:

- A configuration file. Example is given in “Scripts\cfgs_and_inputs\create_input.cfg”
- row_input.csv which was create in Step2.

The row_input file should contains following columns:

- 'rating_clips': urls of all clips which needs to be rated
- 'math': url of various math questions to proof usage of two-eared headphones.
- 'pair_a','pair_b': pairs will appear in the setup section, to check the environment of user.
- 'trapping_clips','trapping_ans': url to all trapping questions, and a number which shows the correct answer.
- 'gold_clips': (optional) list of gild clips

- **Run the script:**
  - **First check if requirements are installed:**

```
pip install -r create_input_acr_requirements.txt
```

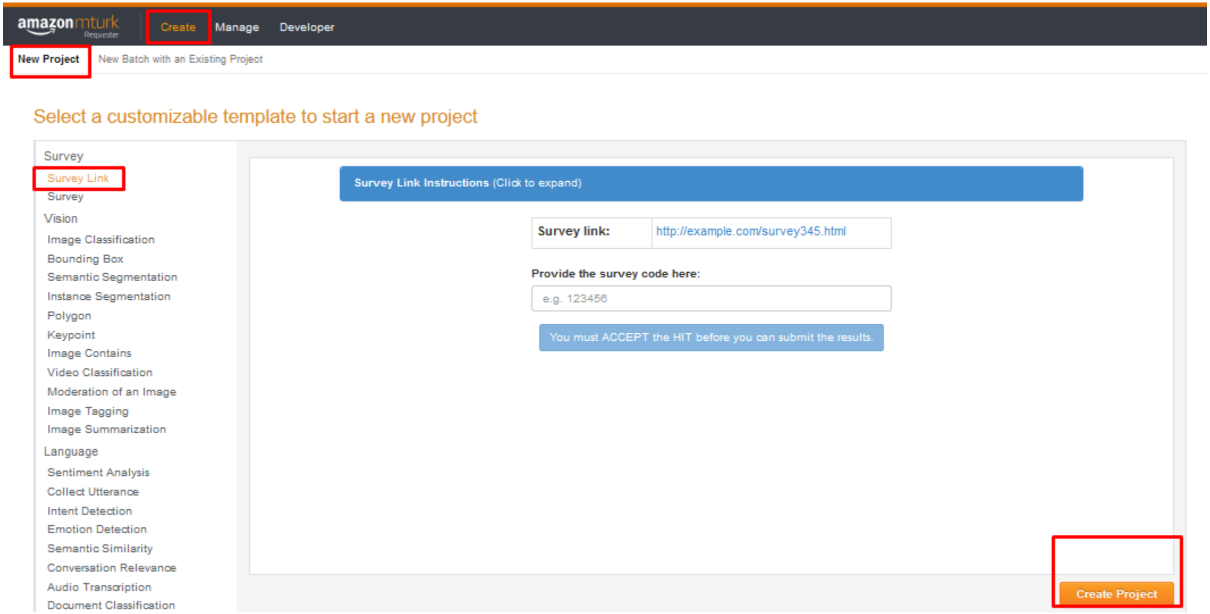
- **Run the script**

```
python create_input_acr.py --cfg
cfgs_and_inputs/create_input.cfg --row_input cfgs_and_inputs/
row_input_librivox.csv
```

The script generates an input csv file: xxx_publish_batch.csv

Step4: Create the ACR Project

- **Go to "Create" > "New Project" > "Survey Link" > "Create project"**



Select a customizable template to start a new project

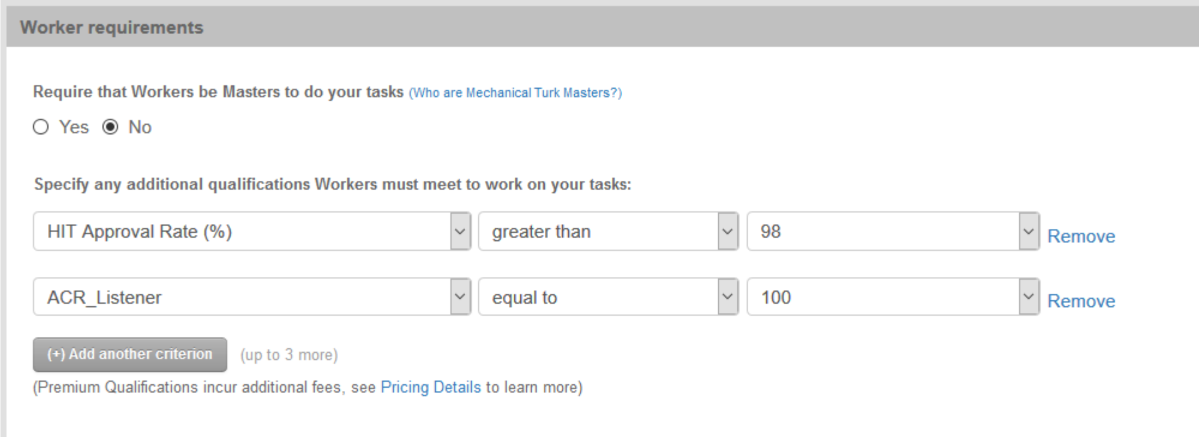
Survey link: http://example.com/survey345.html

Provide the survey code here:

e.g. 123456

You must ACCEPT the HIT before you can submit the results.

- **Fill information in "1 – Enter Properties",** important ones:
  - **"Setting up your survey"**
    - **Payment**
    - "Number of respondents"**: 9**
    - "Time allotted per Worker**": 1 Hours**
  - **"Worker requirements"**
    - **Use following qualifications:**



Worker requirements

Require that Workers be Masters to do your tasks (Who are Mechanical Turk Masters?)

○ Yes ● No

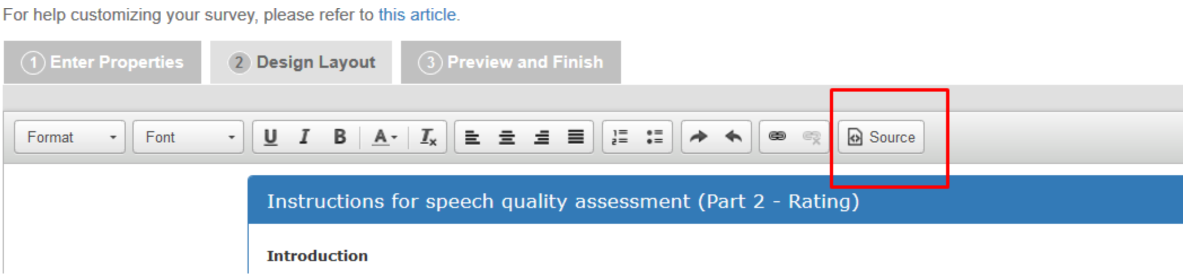
Specify any additional qualifications Workers must meet to work on your tasks:

HIT Approval Rate (%)	greater than	98
ACR_Listener	equal to	100

(up to 3 more)

(Premium Qualifications incur additional fees, see Pricing Details to learn more)

- Save and Go to "Design Layout"
- Click on "Source"

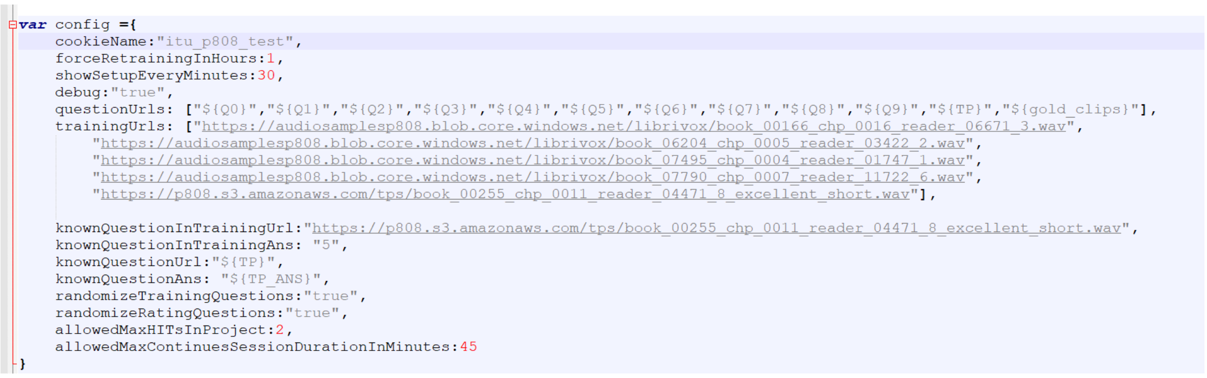


For help customizing your survey, please refer to this article.

Instructions for speech quality assessment (Part 2 - Rating)

Introduction

- Copy-paste the ACR.html here
    - NOTE: you should consider to change some information in the “Introduction” section: like “**Payment”, or the image on top (up to 60x Ratings) …**
    - Note: you may consider to change the config object as well- variables should match with input.csv



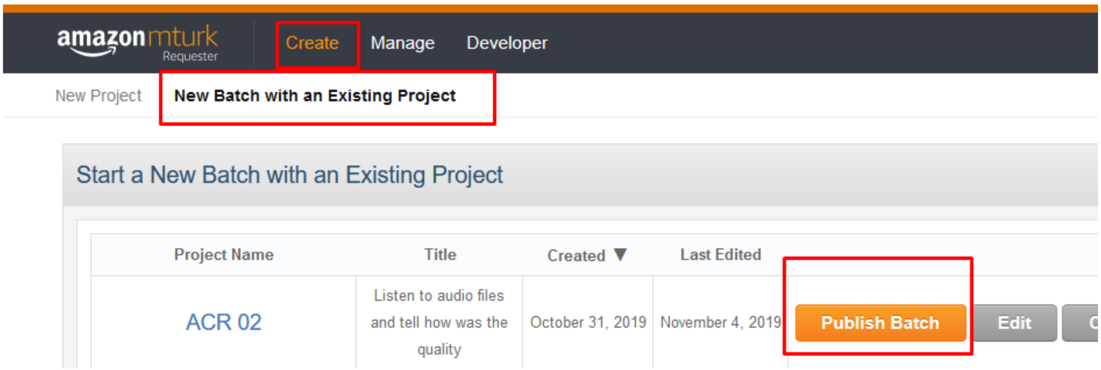
```
var config ={
    cookieName:"itu_p808_test",
    forceRetrainingInHours:1,
    showSetupEveryMinutes:30,
    debug:"true",
    questionUrls: ["${Q0}","${Q1}","${Q2}","${Q3}","${Q4}","${Q5}","${Q6}","${Q7}","${Q8}","${Q9}","${TP}","${gold_clips}"],
    trainingUrls: ["https://audiosamplesp808.blob.core.windows.net/librivox/book_00166_chp_0016_reader_06671_3.wav",
        "https://audiosamplesp808.blob.core.windows.net/librivox/book_06204_chp_0005_reader_03422_2.wav",
        "https://audiosamplesp808.blob.core.windows.net/librivox/book_07495_chp_0004_reader_01747_1.wav",
        "https://audiosamplesp808.blob.core.windows.net/librivox/book_07790_chp_0007_reader_11722_6.wav",
        "https://p808.s3.amazonaws.com/tps/book_00255_chp_0011_reader_04471_8_excellent_short.wav"],

    knownQuestionInTrainingUrl:"https://p808.s3.amazonaws.com/tps/book_00255_chp_0011_reader_04471_8_excellent_short.wav",
    knownQuestionInTrainingAns: "5",
    knownQuestionUrl:"${TP}",
    knownQuestionAns: "${TP_ANS}",
    randomizeTrainingQuestions:"true",
    randomizeRatingQuestions:"true",
    allowedMaxHITsInProject:2,
    allowedMaxContinuesSessionDurationInMinutes:45
}
```

- Click on “source”
- Click on “Save” and “Preview”
- Click on “Finish”

Step 5: Publish the batch

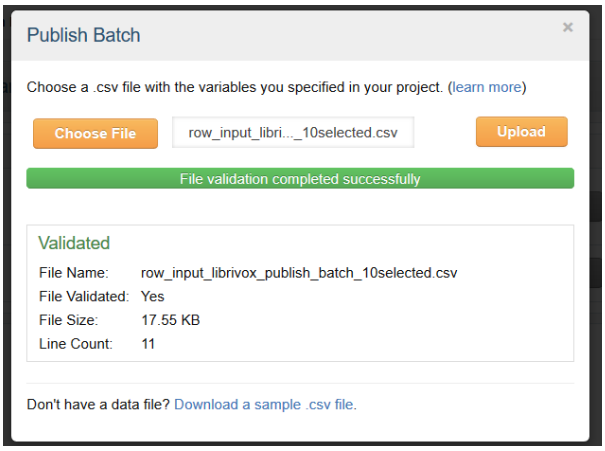
- **Go to “Create”> “New Batch with an Existing Project”**



Start a New Batch with an Existing Project

Project Name	Title	Created ▼	Last Edited
ACR 02	Listen to audio files and tell how was the quality	October 31, 2019	November 4, 2019

- Find your project, and click on **“Publish Batch”**
- Upload your input.csv file created in last section (xxx_publish_batch.csv)



Publish Batch

Choose a .csv file with the variables you specified in your project. (learn more)

row_input_libri..._10selected.csv

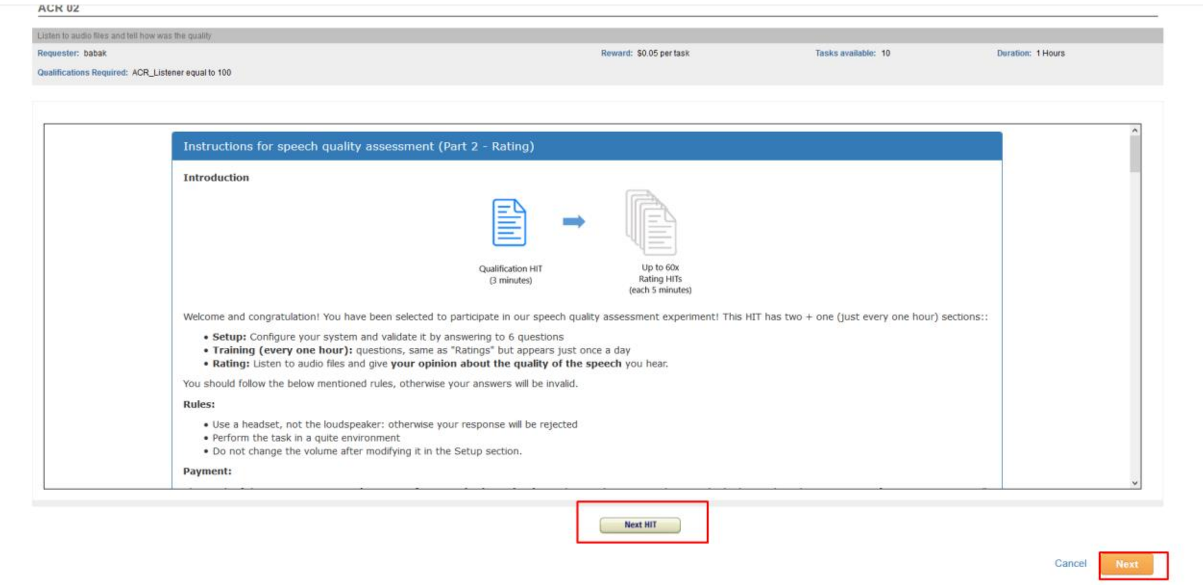
File validation completed successfully

Validated

File Name:	row_input_librivox_publish_batch_10selected.csv
File Validated:	Yes
File Size:	17.55 KB
Line Count:	11

Don't have a data file? Download a sample .csv file.

- If everything is green, go ahead with “upload” otherwise there is variable missing in the input.csv.
- Check the HITs, and if everything is ok click on Next



ACR 02

Listen to audio files and tell how was the quality

Requester: babak | Reward: $0.05 per task | Tasks available: 10 | Duration: 1 Hours

Qualifications Required: ACR_Listener equal to 100

Instructions for speech quality assessment (Part 2 - Rating)

Introduction

Welcome and congratulation! You have been selected to participate in our speech quality assessment experiment! This HIT has two + one (just every one hour) sections::

- **Setup:** Configure your system and validate it by answering to 6 questions
- **Training (every one hour):** questions, same as "Ratings" but appears just once a day
- **Rating:** Listen to audio files and give **your opinion about the quality of the speech** you hear.

You should follow the below mentioned rules, otherwise your answers will be invalid.

Rules:

- Use a headset, not the loudspeaker: otherwise your response will be rejected
- Perform the task in a quite environment
- Do not change the volume after modifying it in the Setup section.

Payment:

- Check the calculation and “Publish”