**System requirements**

1. Functional:

1.1- the system shall request glasses catalog page.

1.2- the system shall collect all glasses data from catalog as detailed:

1.2.1 Glasses Name

1.2.2 Glasses ID

1.2.3 Glasses dimension (Frame Width, Lens Width, Bridge, Temple Length, Lens Height, Frame Weight)

1.2.4 Glasses image (clean with transparent background)

1.3 - the system shall locate each glasses data from html.

1.4 - the system shall save the glasses data and image in storage.

1.5- the system shall find regularity in glasses front image link.

1.6 - the system shall create parsed links with each glasses data and temporarily save it.

1.7- the system shall loop through all parsed links.

1.8- the system shall download image.

1.9- the system shall check if there is enough disk space for the image.

1.10- the system shall save the image to storage.

1.11- the system shall name the image with the corresponding data.

1.12 the system shall save the data with the image path to database.

1.13 the system shall display a report of the corresponding id of each download and its status.

2. Non-functional:

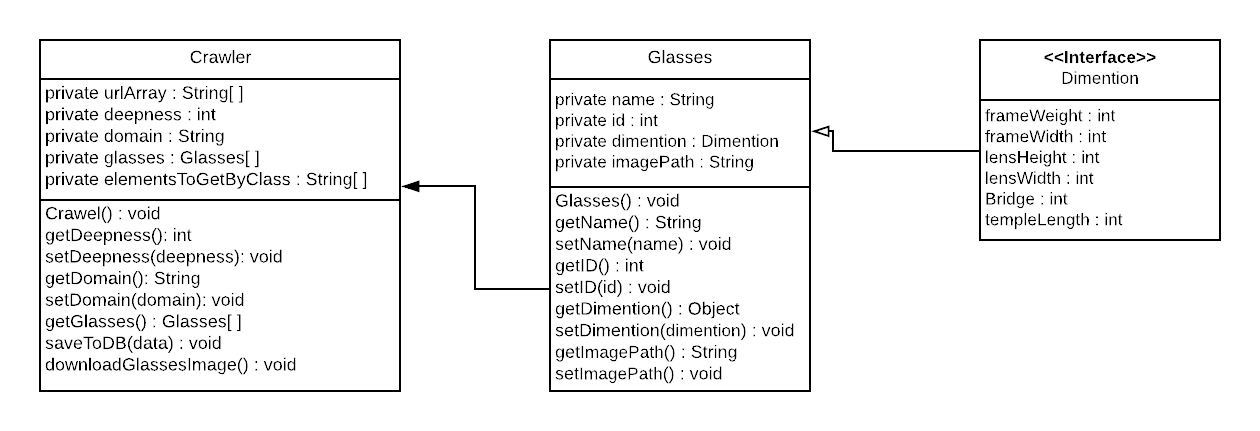
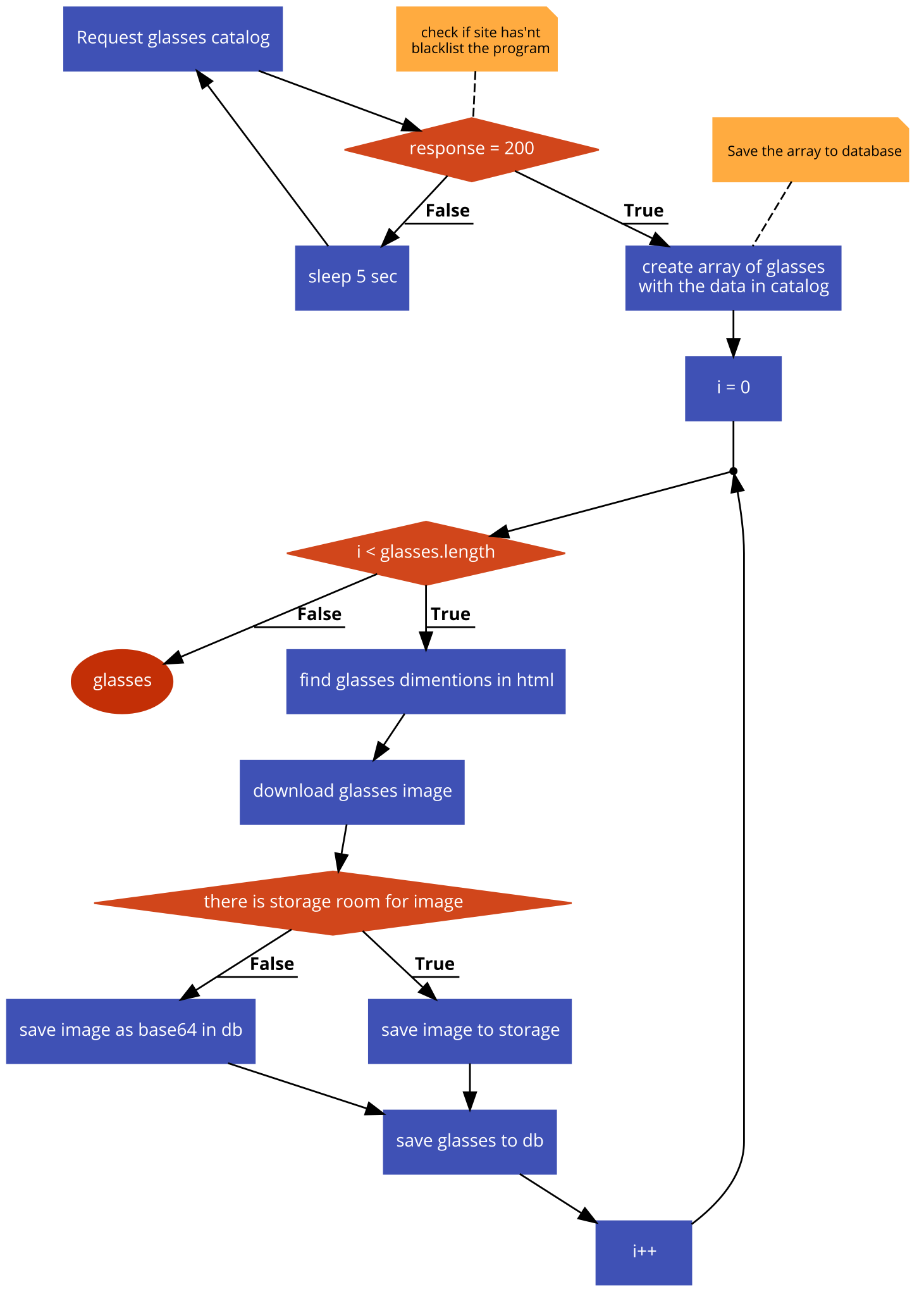
2.1 the system shall load only unnecessary files (html, css, js, images).

2.2 The system shall behave as legitimate human user to avoid banning by the site.

2.3- the looping through 'parsed links' operation shall be done in a different thread.

2.4- the 'download image' operation shall be done in the corresponding parsed link thread.

2.5- the system shall be written in angular2

**Design**

**Ex1 Test Plan – Final Testing**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **No.** | **Test** | **Description** | **Expected result** | **Result (Pass/Fail)** | **Requirement** | **Comments** |
| 1 | Scan Glasses Catalog Page | User will Enter the glasses page URL (www.site.com/.....), the system will scan the page and store the Catalog in the system’s DB. | The DB have # items in the catalog |  | 1.1 |  |
| 2 | Collect data for each glasses | System will scan the page and find the glasses data and save in the system’s DB. | The db should contain # glasses with allSet flag set to true. |  | 1.2 |  |
| 3 | Find glasses links | System will scan the page and find the glasses image link and save to array | Array of glasses links should contain # items. |  | 1.6 |  |
| 4 | Save glasses | System will send an array full of glasses to backend for saving on the DB. | The database should contain # glasses |  | 1.9 |  |
| 5 | Load only necessary files | User will count all files in system folder. User will run the first page pf the system. Press F12 in the browser and count how many \*.js are in the menu | There will be # js files. |  | 2.1 |  |