

```
1 using System;
2 using System.IO;
3 using System.Threading.Tasks;
4 using Microsoft.AspNetCore.Mvc;
5 using Microsoft.Azure.WebJobs;
6 using Microsoft.Azure.WebJobs.Extensions.Http;
7 using Microsoft.AspNetCore.Http;
8 using Microsoft.Extensions.Logging;
9 using Newtonsoft.Json;
10
11 namespace GithubMonitorApp
12 {
13     public static class GithubMonitorWithModels
14     {
15         [FunctionName("GithubMonitorWithModels")]
16         public static async Task<IActionResult> Run(
17             [HttpTrigger(AuthorizationLevel.Anonymous, "post", Route =
18                 null)] HttpRequest req,
19             ILogger log)
20         {
21             //Log Information to the function invocation details
22             log.LogInformation("New Push on your repository");
23
24             string requestBody = await new StreamReader
25                 (req.Body).ReadToEndAsync();
26
27             //Transform the string response body as a Rootobject Model
28             Rootobject data = JsonConvert.DeserializeObject<Rootobject>
29                 (requestBody);
30
31             //Store the message to log after a github push
32             string message = $"{data.pusher.name} pushed a file to your
33                 repository at {data.repository.updated_at:h:mm tt}.";
34
35             log.LogInformation(message);
36
37             //Return the result
38             return new OkResult();
39         }
40     }
41
42     /// <summary>
43     /// List of models represented in the request
44     /// To obtained them I pasted the JSON as Classes ( Edit > Paste Special
45     > Paste JSON as Classes)
46     /// </summary>
47     #region Models
48
49     public class Rootobject
50     {
51         public string _ref { get; set; }
52         public string before { get; set; }
53         public string after { get; set; }
```

```
49     public Repository repository { get; set; }
50     public Pusher pusher { get; set; }
51     public Sender sender { get; set; }
52     public bool created { get; set; }
53     public bool deleted { get; set; }
54     public bool forced { get; set; }
55     public object base_ref { get; set; }
56     public string compare { get; set; }
57     public Commit[] commits { get; set; }
58     public Head_Commit head_commit { get; set; }
59 }
60
61 public class Repository
62 {
63     public int id { get; set; }
64     public string node_id { get; set; }
65     public string name { get; set; }
66     public string full_name { get; set; }
67     public bool _private { get; set; }
68     public Owner owner { get; set; }
69     public string html_url { get; set; }
70     public object description { get; set; }
71     public bool fork { get; set; }
72     public string url { get; set; }
73     public string forks_url { get; set; }
74     public string keys_url { get; set; }
75     public string collaborators_url { get; set; }
76     public string teams_url { get; set; }
77     public string hooks_url { get; set; }
78     public string issue_events_url { get; set; }
79     public string events_url { get; set; }
80     public string assignees_url { get; set; }
81     public string branches_url { get; set; }
82     public string tags_url { get; set; }
83     public string blobs_url { get; set; }
84     public string git_tags_url { get; set; }
85     public string git_refs_url { get; set; }
86     public string trees_url { get; set; }
87     public string statuses_url { get; set; }
88     public string languages_url { get; set; }
89     public string stargazers_url { get; set; }
90     public string contributors_url { get; set; }
91     public string subscribers_url { get; set; }
92     public string subscription_url { get; set; }
93     public string commits_url { get; set; }
94     public string git_commits_url { get; set; }
95     public string comments_url { get; set; }
96     public string issue_comment_url { get; set; }
97     public string contents_url { get; set; }
98     public string compare_url { get; set; }
99     public string merges_url { get; set; }
100    public string archive_url { get; set; }
101    public string downloads_url { get; set; }
```

```
102     public string issues_url { get; set; }
103     public string pulls_url { get; set; }
104     public string milestones_url { get; set; }
105     public string notifications_url { get; set; }
106     public string labels_url { get; set; }
107     public string releases_url { get; set; }
108     public string deployments_url { get; set; }
109     public int created_at { get; set; }
110     public DateTime updated_at { get; set; }
111     public int pushed_at { get; set; }
112     public string git_url { get; set; }
113     public string ssh_url { get; set; }
114     public string clone_url { get; set; }
115     public string svn_url { get; set; }
116     public object homepage { get; set; }
117     public int size { get; set; }
118     public int stargazers_count { get; set; }
119     public int watchers_count { get; set; }
120     public object language { get; set; }
121     public bool has_issues { get; set; }
122     public bool has_projects { get; set; }
123     public bool has_downloads { get; set; }
124     public bool has_wiki { get; set; }
125     public bool has_pages { get; set; }
126     public int forks_count { get; set; }
127     public object mirror_url { get; set; }
128     public bool archived { get; set; }
129     public bool disabled { get; set; }
130     public int open_issues_count { get; set; }
131     public object license { get; set; }
132     public int forks { get; set; }
133     public int open_issues { get; set; }
134     public int watchers { get; set; }
135     public string default_branch { get; set; }
136     public int stargazers { get; set; }
137     public string master_branch { get; set; }
138 }
139
140 public class Owner
141 {
142     public string name { get; set; }
143     public string email { get; set; }
144     public string login { get; set; }
145     public int id { get; set; }
146     public string node_id { get; set; }
147     public string avatar_url { get; set; }
148     public string gravatar_id { get; set; }
149     public string url { get; set; }
150     public string html_url { get; set; }
151     public string followers_url { get; set; }
152     public string following_url { get; set; }
153     public string gists_url { get; set; }
154     public string starred_url { get; set; }
```

```
155     public string subscriptions_url { get; set; }
156     public string organizations_url { get; set; }
157     public string repos_url { get; set; }
158     public string events_url { get; set; }
159     public string received_events_url { get; set; }
160     public string type { get; set; }
161     public bool site_admin { get; set; }
162 }
163
164 public class Pusher
165 {
166     public string name { get; set; }
167     public string email { get; set; }
168 }
169
170 public class Sender
171 {
172     public string login { get; set; }
173     public int id { get; set; }
174     public string node_id { get; set; }
175     public string avatar_url { get; set; }
176     public string gravatar_id { get; set; }
177     public string url { get; set; }
178     public string html_url { get; set; }
179     public string followers_url { get; set; }
180     public string following_url { get; set; }
181     public string gists_url { get; set; }
182     public string starred_url { get; set; }
183     public string subscriptions_url { get; set; }
184     public string organizations_url { get; set; }
185     public string repos_url { get; set; }
186     public string events_url { get; set; }
187     public string received_events_url { get; set; }
188     public string type { get; set; }
189     public bool site_admin { get; set; }
190 }
191
192 public class Head_Commit
193 {
194     public string id { get; set; }
195     public string tree_id { get; set; }
196     public bool distinct { get; set; }
197     public string message { get; set; }
198     public DateTime timestamp { get; set; }
199     public string url { get; set; }
200     public Author author { get; set; }
201     public Committer committer { get; set; }
202     public object[] added { get; set; }
203     public object[] removed { get; set; }
204     public string[] modified { get; set; }
205 }
206
207 public class Author
```

```
208     {
209         public string name { get; set; }
210         public string email { get; set; }
211         public string username { get; set; }
212     }
213
214     public class Committer
215     {
216         public string name { get; set; }
217         public string email { get; set; }
218         public string username { get; set; }
219     }
220
221     public class Commit
222     {
223         public string id { get; set; }
224         public string tree_id { get; set; }
225         public bool distinct { get; set; }
226         public string message { get; set; }
227         public DateTime timestamp { get; set; }
228         public string url { get; set; }
229         public Author1 author { get; set; }
230         public Committer1 committer { get; set; }
231         public object[] added { get; set; }
232         public object[] removed { get; set; }
233         public string[] modified { get; set; }
234     }
235
236     public class Author1
237     {
238         public string name { get; set; }
239         public string email { get; set; }
240         public string username { get; set; }
241     }
242
243     public class Committer1
244     {
245         public string name { get; set; }
246         public string email { get; set; }
247         public string username { get; set; }
248     }
249
250     #endregion Models
251
252
253 }
254
```