Software Studio 軟體設計與實驗

Cocos Creator & Firebase



Department of Computer Science
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Firebase API

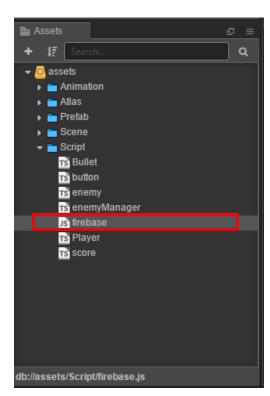
- Follow the steps and then you can use Firebase API in your Cocos Creator project.
 - 1. Download firebase.js which TA provides
 - 2. Add file to project
 - 3. Set file as plugin
 - 4. Set project config



Import firebase.js

 Download firebase.js file provided by TA and load it to your project.

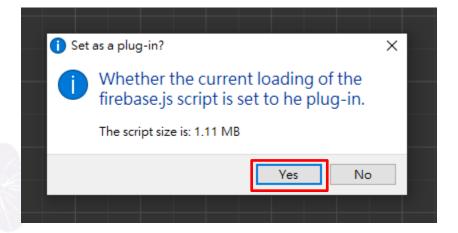






Set firebase.js as Plugin

- After you drag the file to assets folder,
 Cocos Creator will ask you whether the file is set to plugin.
- Choose "Yes".



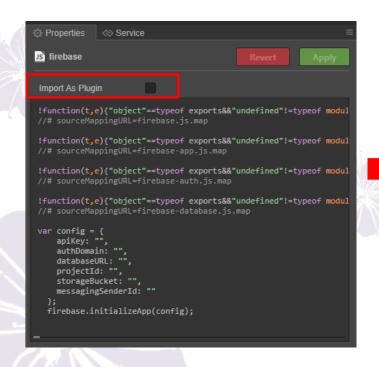


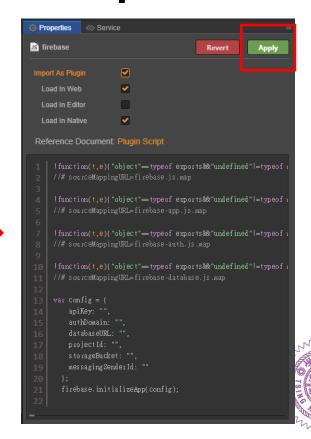
Set firebase.js as Plugin

You can also set the file to plugin manually.

Choose firebase.js, check Import As

Plugin, and apply it.





Change Config

 Modify the config in the firebase.js according to your firebase config.

```
o=Dn.prototype.put;return Dn.prototype.put=function(t,e,n,r){void 0!==r&&(r=i()),o.call(thi
queryIdentifier()},listens:function(t){return t.repo.persistentConnection_.listens_},forceR
registerService("database",function(t,e,n){return Bn.getInstance().databaseFromApp(t,n)},{R
TEST_ACCESS:Jn},null,!0),d()&&(module.exports=Gn)}).apply(this,arguments)}catch(t){throw co}
});

//# sourceMappingURL=firebase-database.js.map

/ar config = {
    apiKey: "",
    authDomain: "",
    databaseURL: "",
    projectId: "",
    storageBucket: "",
    messagingSenderId: ""
};
firebase.initializeApp(config);
```

Use Firebase API

- Now you can use Firebase API which we taught in class in your TypeScript scripts.
- Note that the "firebase not found" error can be ignored.

```
const {ccclass, property} = cc._decorator;

@ccclass
export default class button extends cc.Component {

    public sendValue()
    {
        var ref = firebase. Jatabase().ref('test');
        var data : {
            value: 0
        };
        ref.push(data);
    }
}
```



Use Firebase API

- You can put a declaration of the firebase object to make IntelliSense happy. This is completely optional.
- Place the following line anywhere in your scripts or put it in "firebase.d.ts", located at the top level of your project.

declare const firebase: any;

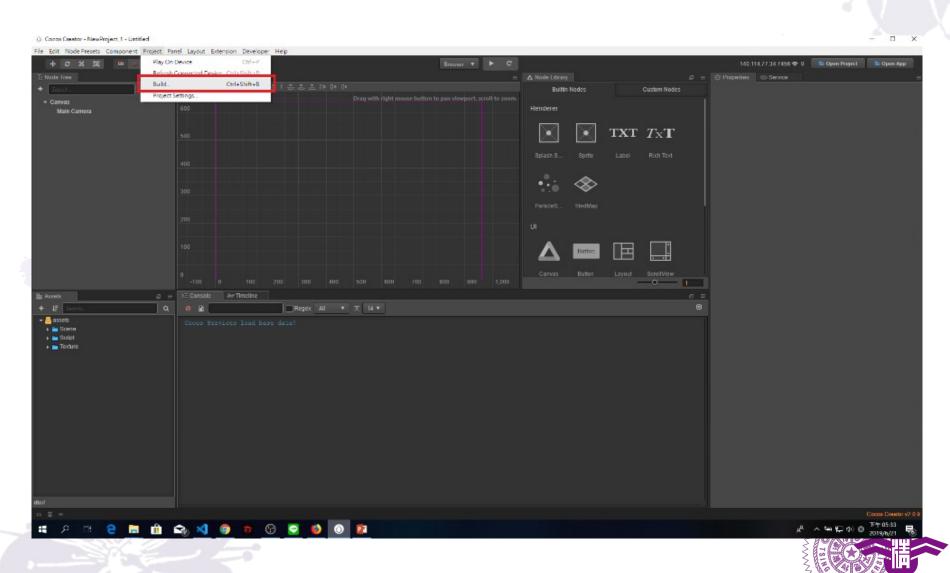


Deployment

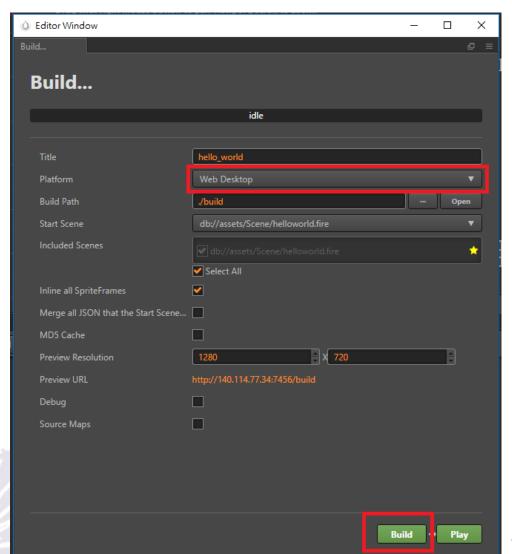
- Follow the steps then you can use firebase deploy to run your Cocos Creator project.
 - 1. Build in Cocos Creator
 - 2. Firebase initialization
 - 3. Set public folder to build folder
 - 4. Firebase deployment



Build in Cocos Creator



Build in Cocos Creator

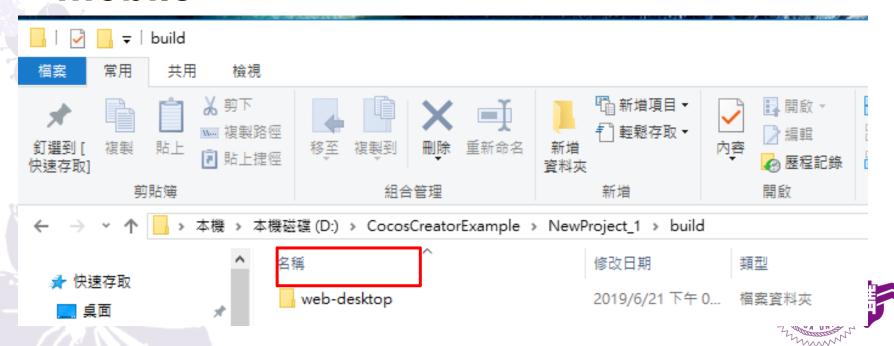






Build in Cocos Creator

 If built successfully, you can find your source files in [project_path]/build/webdesktop or [project_path]/build/webmobile



Firebase initialization

 Run firebase initialization in your project's folder. You can Firebase Hosting Appendix to review how to initialize. Be careful not to overwrite your build folder!

名稱 ^	修改日期	類型	大小
.firebase	2019/6/21 下午 0	檔案資料夾	
public public	2019/6/21 下午 0	檔案資料夾	
firebaserc	2019/6/21 下午 0	FIREBASERC 檔案	1 KB
	2019/6/21 下午 0	文字文件	2 KB
database.rules	2019/6/21 下午 0	JSON 檔案	1 KB
firebase	2019/6/21 下午 0	JSON 檔案	1 KB
package	2019/6/21 下午 0	JSON 檔案	1 KB

Set public directory

 You'll be asked to set the public directory at the Hosting Setup step. Use the path "build/web-desktop" (or web-mobile) as your public directory, so Firebase will deploy your game using your build's files.

```
Your public directory is the folder (relative to your project directory) that will contain Hosting assets to be uploaded with firebase deploy. If you have a build process for your assets, use your build's output directory.

? What do you want to use as your public directory? build/web-desktop
? Configure as a single-page app (rewrite all urls to /index.html)? No
? Set up automatic builds and deploys with GitHub? No
+ Wrote build/web-desktop/404.html
? File build/web-desktop/index.html already exists. Overwrite? No
i Skipping write of build/web-desktop/index.html
```

Set public directory

 If you made a mistake here, you can change it by editing firebase.json after initialization. Note the "public" property.

```
🔰 firebase.json 🗙
firebase.json > ...
         "hosting":
           "public":
                     "build/web-desktop
           "ignore": "
            "firebase.json",
             "**/.*".
             "**/node modules/**"
           "rewrites": [
               "source": "**",
 11
 12
               "destination": "/index.html"
 13
 15
```



Firebase Deployment

 Deploy your files to Firebase. You can check Firebase Hosting Appendix to review how to deploy.







Finish

 Finish all the steps, then you can see your game run on Firebase.





