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the development server, which also generates 1. Introduction required indexes, you need to upload the app to

production App Engine. 2. Tutorial Setup

3. Creating the Projectmoortant: you must generate any required

After you finish testing and running the app on

4. Adding Code and Undexes before uploading your app.

5. Storing Data

To upload the app:

6. Uploading Your Application

1. Open the file

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Java API Reference

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Release Notes

questbook/target/questbook-1.0-SNAPSHOT/WEB-INF/appenginegenerated/datastore-indexesauto.xml in an editor and make sure that it contains the following:

<datastore-indexes> <datastore-index kind="Greetin</pre> property name="date" dire </datastore-index> </datastore-indexes>

Typically, you have to change source="auto" to source="manual".

Note: If needed indexes are not uploaded, your app may fail at runtime. However, in this case, you can address this by examining the error message: the needed indexes are included in the error message. Copy those index entries from the error message into datastoreindexes-auto.xml and run the

update command again.

2. Change directory to guestbook, and invoke Maven as follows:

```
mvn appengine:update
```

- 3. The first time you upload, you'll be prompted to supply login information and you will be led through the login process via the browser. Follow the prompts. You may need to copy the success code from the browser into the command line at the end of the login process. (This information is remembered after you do it once.)
- 4. Wait for the upload to complete. If the upload succeeds, you'll see a message similar to this one:

```
98% Uploading index definitions.

Update for module default complete Success.
Cleaning up temporary files for mo
```

5. In your browser, visit the url https://<project-ID>.appspot.com to run the application hosted on App Engine, replacing <project-ID> with your project ID.

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