**Create your first module**

**Preparation:**

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| **Description** | Learners will create a basic module and study its structure. |
| **Source** | Assignment created by Becka Morgan for CS477/577 WOU |
| **Prerequisite Knowledge** | None |
| **Estimated Time to Completion** | 120 min. |
| **Learning Objectives** | 1) Identify the structure of a module, 2) Create an OpenMrs SDK, and 3) Create a module |
| **Materials/Environment** | Access to Internet/Web and web browser. |
| **Turn In** | Blog posting describing the results of your exploration below. |

**Background:**

OpenMRS has a modular architecture that allows modules to be easily added or removed from the system. Modules have full access to the system and can modify or enhance the behavior of the system. For example, the Sync Module adds the ability for an OpenMRS server to synchronize its data with other OpenMRS servers; the HTML Form Entry Module provides a way to create web-based forms for collecting data; and, the Flowsheet Module adds a new way for viewing information. Modules also provide a mechanism for adapting OpenMRS to local needs.

**Directions:**

Read and explore the following at <https://modules.openmrs.org/modules/>:

1. List all module – find at least 3 modules that sound interesting. Write a summary of what they do.
2. Statistics – summarize the top two downloaded modules of all time and the top two downloaded modules last week.

Next refer to [OpenMRS Chapter](http://en.flossmanuals.net/_booki/openmrs-developers-guide/openmrs-developers-guide.pdf) 11.

1. Set up OpenMRS SDK.
2. Create your first module.
3. Write a description of each component and what it is responsible for.
4. Complete the tutorial for creating a module.

\*\*\*\*\*\*before going to <http://localhost:8080/openmrs/admin/index.htm> you must start maven jetty move to the webapp file in the openmrs-core file and execute the following command:

mvn jetty:run