Structure of worked example:

PROJECT DESCRIPTION
Name of the project;
Website;
Description.

INITIAL RECOGNITION
How long has the project been in existence?
Briefly describe the project history;
What is the project license?
What is the size of the project? Number of lines of code?
Number of classes?
Has the size of the project increased in the latest versions?
Is there any recent activity in the project?
Is there business collaboration for the project?
Are there more independent developers than company employees?
What are the technologies (language, libraries, databases) used by the software?

TECHNICAL CHARACTERIZATION
How many contributors participated in the project in the last 6 months?
And from the beginning?
What is the release policy?
Is there documentation to help newcomers?
What kind of information is available?
Does the project have an automated test suite?
Does the code contain comments?
Are there parts that need more comments?
Are there parts of the source code that are problematic? Justify.
Can design patterns and architectural patterns be identified from code?
Which ones?
Is there any UML diagram saved in project folder(s)?
In which?
What did you need to install on your system to make the project compile/run?
Is the documentation provided by the project sufficient?

TASKS ON UML CLASS DIAGRAMS
1st STAGE:
Now that the pair already know the Champs Project of the Galaxy, you should work on creating UML class diagrams, according to the concepts presented in the classroom and recommended readings. To support the creation of class diagrams, I suggest the use of an open source modeling tool, e.g. ArgoUML[1] or StarUML[2]. Both students should create the diagrams individually and then discuss each one design decisions. After creating the final diagram, post the image of it by updating the 'Branch' created with a new 'Pull Request'. Remember that commits will be evaluated, so use resources, such as the checklist of both members of the pair to create the class diagrams.

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[1] http://argouml.tigris.org
[2] https://sourceforge.net/projects/staruml/

2nd STAGE:
Creating the UML Class Diagram.