

# X Web: Proposal Worksheet

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## 1 Abstract

X Web is a self-defined team project that uses the combined brain power of your team to define, design, build, test and demo a meaningful web application development project. This worksheet will take you through the initial team formation and project planning steps. **This a proposal that must be “approved” by the instructor prior to development.**

## 2 Build a team.

Self assemble yourselves into teams of your choosing. Team requirements:

1. Two people. *If the class has an odd number of people, only one team of three will be allowed.*
2. At least one person with previous “hands-on” database experience.
3. Team captain must be the person with least database experience.

### 2.1 Pick some cool names.

Every project needs a cool name, as well as a captain. Fill in the blanks:

**Team Captain:**

**Project Code Name:**

### 2.2 Gather member information.

Fill in the following table with your team information

Table 1: Team member information.

Number	Name	ASURite	Previous Database Course	Email
(e.g.)	Alice Anderson	aanderson	CST 123	aanderson
<b>#1</b>				
<b>#2</b>				
<b>#3</b>				



**Visual** Content must be displayed using HTML on at least Firefox 4. You may use HTML5, JavaScript and CSS if you so chose, but it is not required. (**Exception:** If your app is intended to provide “headless” web services—such as video encoding, number crunching etc.—you are not required to put an HTML “face” on your app.)

**Output** Programs must provide correct, real-time output based on the current database state.

**Exception Handling** Any/All user, disk, network etc. I/O must be “solid”: written with thorough exception handling practices to provide a reasonable level of application robustness. Use begin/else/finally blocks and checked/unchecked exception handling where appropriate. (**Bonus:** Make use of a 3rd-party API. Maps, geolocation etc. is all fair game!)

**Code Documentation** Code with documentation on usage and programmer thinking is a magnitude more valuable than code without. All custom code must be thoroughly comment in Javadoc format. (**Bonus:** Provide “howto” documentation on all reusable classes.)

**Automated Test Cases** Provide a suite of “unit tests” that allow you to quickly run regression tests against your code base. You must also include “negative” test cases: code which intentionally calls functions with invalid input to verify that the code fails the way it is supposed to. For example, passing null, invalid numbers etc. to functions expecting “correct” input should do something reasonable. We will be using an automated test mechanism included with the Rails framework.

### 3.3 Project summary.

In 2-3 paragraphs, summarize the purpose, input, behavior, and expected output of your application. Get creative!

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This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are approximately 20 lines visible. The paper has a slight shadow on its right side, suggesting it's resting on a surface.

### 3.4 Target user(s).

In 1-2 paragraphs, describe the intended users of your application. (If you're writing a game, for example, is it for kids or adults? ...fun or educational purposes? ...paying customers or free access?)

[illegible]

### 3.5 Milestones.

The team will need to hit all of the following milestones for full credit.

**Thursday, February 10th** Proposals due.

**Thursday, March 10th** Checkpoint. Your team (led by the captain) will walk me through your progress thus far. By this point I expect you to have a good start on the project objectives as well as a good working relationship (and process) with the team.

**Thursday, March 31st** Demo and presentation. Your team—lead by the captain—will deliver a well rehearsed project presentation and application demonstration in front of the class. Your application may be running on your local machine.

## 4 Define success.

All team members will receive the same grade for the project. Additionally, the team captain will deliver a live 10-15 minute demo in front of the class prior to grading.

### 4.1 Grading breakdown.

Total points possible: 36. (Tip: This is a lot, so take the project seriously.)

**20%** In-class demo. *Be prepared.* Be professional. Quality of content, delivery and project demo will be considered. In other words, make sure your project doesn't "blow up" in front of the class! You will have projector access to show slides, code, and other additional resources you deem fit.

**20%** Peer review.

**30%** Given by instructor, based on the previously defined criteria.

**30%** Defined by your team, below.

### 4.2 Custom grading criteria.

Define at least **four** specific ways your project should be graded. (For example: "*Correctly parses uploaded spreadsheet*", or "*Renders MineSweeper board correctly.*") These must be reasonably challenging criteria for a team of two people given over a month of development time. Trivial criteria such as "*Application accepts invalid user input without throwing an exception.*" will be rejected.

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