**Introduction**

- present the case (no talk about the program itself yet) **(1 min)**

**Demonstration**

* Demonstration of the program (scheduling and showing the website) **(2 min)**

**Implementation**

* Go through implementation chronologically
* We vaguely followed Waterfall
* Analysis: given the case at hand, we extracted (?) a list of requirements for the program.
* Design:
  + show our class diagram, talk about it briefly
  + show some of the balsamiq wireframes for gui and explain why we did the gui before the coding
  + show the website ideas and talk about how we actually made most of it in the rwd assignment lol ------- U**P UNTIL HERE: 2:30 MIN**
* **ACTUAL IMPLEMENTATION: 2:30 MIN**
* First thing we did was the GUI
* Then we implemented all of the classes proposed in Design, and a lot of new ideas came up during implementation so we sometimes had to go back and change design
* The main thing for the program was to check for the time and classroom overlaps, and this was something that we achieved in the following manner:
  + Talk about the time overlaps for the same class
  + Very cool: time overlaps for classrooms

**OTHER STUFF:**

* + PERSISTENCE was achieved through: **1:30 min**
    - Parsing information from .txt files
    - Storing it inside of the program
    - Exporting it as a .json: not XML because XML couldn’t deal with empty or one-element arraylists, but it works exactly the same: we used an external xmljson parser to do this with ease.
  + DISPLAYING SCHEDULES IN WEBSITE**: 3:00min**
    - The program is capable of exporting the list of sessions for a class (e.g. 1x, 1z…) and the website is capable of displaying these on a timetable. This is achieved through the use of JavaScript:
      * AJAX made it possible for us to update the page without reloading it. Because we have a dropdown menu for each class and week and yeah
      * For each session, javascript uses the “number of lessons” and puts it inside of the rowspan attribute so that the “size” of the session is accurate with the time, also deleting the “extra” table cells so that the timetable stays nice and clear. Also, whenever someone chooses a different week or class, the table is reset to default so that the deleted table cells come back and can be used.
      * The sessions have a different background color depending on the course :) cute
  + As for testing, our methodology was to make a lot of different schedules, make use of all of the functionalities – really push the program to its limit to check for bugs.

**Results & Discussion – ADD ABOUT PBL**

* Predictions versus actual outcome:
  + The program successfully schedules, reschedules and cancels sessions.
  + The website successfully displays them accurately.
  + It is user friendly
  + All of the critical requirements set were met.
  + ---
  + Things we did not do: The program does not generate or check overlaps for teachers
  + Students with credits also don’t have personal timetables
* **What could have been better:**
  + Persistence with databases instead of files and why (files create a whole new file everytime there is a little change, which is a waste of resources)
  + Either way, the main functionalities are there :)
  + Up until here: **2:00min**
* **LEARNING OUTCOME: 1:30 min**
  + Having to come up with a solution to a case by ourselves made it possible for us to:
    - Learn on a deeper level as opposed to a superficial one, due to the fact that we did stuff instead of just memorizing it for an exam
    - Made us feel engaged to developing the project
    - Made us feel autonomous and self-fulfilled
  + One issue that arose from time to time was that, without constant supervising, it became easier for us to get stuck in a task.
  + **In conclusion, the lack of a step-by-step guidance made it possible for us to learn by finding our own path, with the risk of us sometimes losing our way. This risk was mitigated by the access to help from supervisors. :)**

**Conclusion: 1 min**

* As a group, we worked very well, we consistently output good work, made progress each time we met and overall had a good time together. This made it possible for us to present this solid project and we look forward to working together again soon. Thank you for your time :)