Sprint 2 – App Implementation

Deadline	March 26th, at 5:00 AM
Deliverable	Sprint 2 Deliverable + Oral exam
Possible points	**95 Individual points + 16 Team points**

Sprint 2 – General description

In this sprint, you **must**:

- List all the business questions that you will implement with their respective type (and rationale if necessary). **(WIKI)**
- List all the implemented functionalities.
- Design an analytics stack or pipeline **(WIKI)**
- Describe the architectural design by using the necessary diagrams, patterns, and tactics. **(WIKI)**
- Provide a rationale for your architectural design choices. **(WIKI)**

- Implement the proposed architectural design.
- Implement business questions (BQ).

    To implement **these BQs, you should also implement the proposed analytics pipeline**.

- Implement views.
- Implement mobile app features that:
    o use of at least one sensor in the phone
    o answer type 2 questions
    o are context aware
    o are considered smart features
    o allow users authentication
    o use external services

All the above mentioned must be implemented to be able to present the Viva-voce.

We will check the time of the last edition according to Gitlab. Remember Gitlab has GMT0 time, and all the deadlines are in GMT-5. If there is any edition after the deadline, the grade of the report will be 0.

In the following image, you can see the way we are checking the time of the last edition in the wiki.

Ingeniería de Sistemas y Computación
Pregrado
ISIS-3510: Construcción de Aplicaciones Móviles

Universidad de los Andes — Colombia

Acreditación institucional de alta calidad 10 años Mineducación Resolución 582 del 9 de enero de 2015

Engineering Accreditation Commission — ABET

María Isabel Arévalo Robinson › ISIS3510-P-mi.arevalo10 › Wiki › **Home**

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Aug 10, 2018 3:22am

Last edited by **María Isabel Arévalo Robinson** 5 days ago

Remember, you have until the deadline to send us your report in the corresponding deliverable in BN (No Google docs or similar will be accepted). **If you do not follow the instructions, we will grade you with a 0.**

Disclaimer:

As you may know, we expect you to deliver your work with the **BEST** quality possible. You are expected to use the knowledge obtained through your entire undergrad and apply it to everything you do in this course. What we understand for excellent quality is described as follows:

1. **Clear images: Do not** upload pixelated or unreadable images.
2. **Be organized:** keep the same format for all sections. Put the same units together in a logical order.
3. **Implementation:** follow the criteria learned in class, laboratories, and the book. **Please read the instructions for each one of these resources carefully**.

Remember that if you have any questions about something, each **TA and Professor has 2 hours of attention a week**; please use them and ask if any topic is not clear.

Sprint 2 – Detailed Description

Here you can find a detailed description of what you have to deliver for Sprint 2.

Deliverable Description

1. **[Max 0 points] Business questions (BQs).** List all the business questions that you will implement, in this sprint, with their respective type (and rationale if necessary). **The implemented BQ should be present in the list of Sprint 1 deliverable. (This is evaluated in the Wiki)**

   Note 1: "If you received some feedback about it and you had to change some questions, please leave a comment about it."
   Note 2: "You have to do this in order to enable the presentation of the Viva-Voce"

2. **[Max 5 points] Analytics pipeline (AP)**. Describe and deliver a diagram of your design of your analytics stack/pipeline. **(This is evaluated in the Wiki)**

3. **[Max 10 points] Viva Voce – Part1 (AP and BQ)**. You should be able to justify and explain the **implemented** analytics pipeline and X business questions (BQ). **(This is evaluated in the Viva-Voce)**

   X = is equal to the number of members in the group. **Each of you Should implement one BQ.**

4. **[Max 15 points] Architectural design (AD),** You should provide **a complete architecture design** that shows us the *Architecture design*, *architecture*, and *design patterns* and tactics that you are going to use. To show these architecture design choices use as many diagrams as needed. **Remember that all the artifacts should have a rationale that helps the reader understand the diagram. A diagram without rationale will not be valid. (This is evaluated in the Wiki)**

5. **[Max 15 points] Viva Voce – Part2 (AD implementation and Arguments)**. Implement **X** architectural and design patterns in mobile applications. You should be able to justify your design choices by explaining the usage of styles and design patterns in the proposed solutions. **(This is evaluated in the Viva-Voce)**

   X = is equal to the number of members in the group. **Each of you should implement at least one.**

6. **[Max 15 points] Viva Voce – Part3 (GUI)**. Implement **X** views per platform. You should be able to justify and explain your implemented views. **(This is evaluated in the Viva-Voce)**

   X = is equal to the number of members in the subgroup. **Each of you should implement at least one view.**

7. **[Max 0 points]** List of *implemented* features (IF). List all the features implemented in this sprint. (**This is evaluated in the Wiki**)

   Note 1: "You have to do this in order to enable the presentation of the Viva-Voce"

8. **[Max 35 points]** Viva Voce – Part4 (IF). You have to be able to present and justify all the implemented features. (**This is evaluated in the Viva-Voce**) You should at least implement per platform:
   a. 1 functionality that uses at least one sensor in the phone
   b. 1 functionality that answers type 2 questions
   c. 1 functionality that is context-aware
   d. 1 functionality that is considered smart features
   e. 1 functionality that allows users authentication
   f. 1 functionality that uses external services. (One functionality different form authentication should be connected to the backend).

   Note 1: "Subgroups of 2 could choose between implementing A or C. "
   Note 2: "Each of you should be able to explain any of the functionalities mentioned above"

   - All the above features must be delivered **before the deadline** to be able to present the oral exam.
   - We will check the time of the last edition according to Gitlab. Remember Gitlab has GMT0 time, and all the deadlines are in GMT-5. If there is any edition after the deadline, the grade of the report will be 0.
   - Remember, you have until the deadline to send us your repository link in **BN** (No Google docs or similar will be accepted). **If you do not follow the instructions, we will grade you with a 0.**

Use Technology Tools to Work Efficiently on a Team – Team Competences

- **[Max 8 points]** You manage your team repository in the right way, following the Git flow. In this case, everybody in your team must contribute (commits) and follow instructions for publishing artifacts and information at the wiki (e.g., format).
- **[Max 8 points]** You use the repository mechanism for reporting tasks and progress in the group repository (for instance, when an issue is created, re-opened, closed…)

Individual Process Competences

- **[Max 20 points]** You deliver written artifacts that are: readable, understandable, are consistent in terms of presentation format and in general are top-notch products. **These points will be graded considering the completeness of the tasks**.

- **[Max 20 points]** You use the existing repository tools (i.e., Milestones, issues, squash and merge request/approval, Kanban board, verbose commits). **These points will be graded considering the completeness of the tasks**.

> **If there is no evidence of this competence** ("You use the existing repository tools…..") **for the sprint deliverable, you will get 0 points as the final grade for the sprint deliverable. If you get 0 points in the deliverable, then you cannot present the oral exam**