

Intelligent Tutoring System for Java Programming - variant 1 (Progress Slides, meeting 1)

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Scope & Aims

- **Scope:** An Intelligent Tutoring system is an automated way of teaching a subject to a group of learners with little to no human teaching being involved.
- **Project Aim:** create an Intelligent Tutoring System (ITS) with the purpose of teaching Java to Year 1 Students
- **Variant requirement:** Knowledge Modelling for the representation of the domain.

Current State

- **Researching:**
 - more information about the scope of the project using the papers stated in the literature mentioned below.
 - technologies that are best for approaching the subject (taking into consideration the received recommendations)
- **Literature in use:**
 - Intelligent Tutoring Systems – [Wikipedia](#)
 - Knowledge Model – [Wikipedia](#)
 - Ontology – [Wikipedia](#)
 - [Pejman Makhfi: Introduction to Knowledge Modeling](#)
 - [Vladan Devedzic: Knowledge Modeling - State of the Art](#)
- **Front End:** JavaScript, more specifically React.JS
- **Back End:** Python or Java (right now, researching the most appropriate technology to approach the project).
- **Development Machine OS:** Windows 10

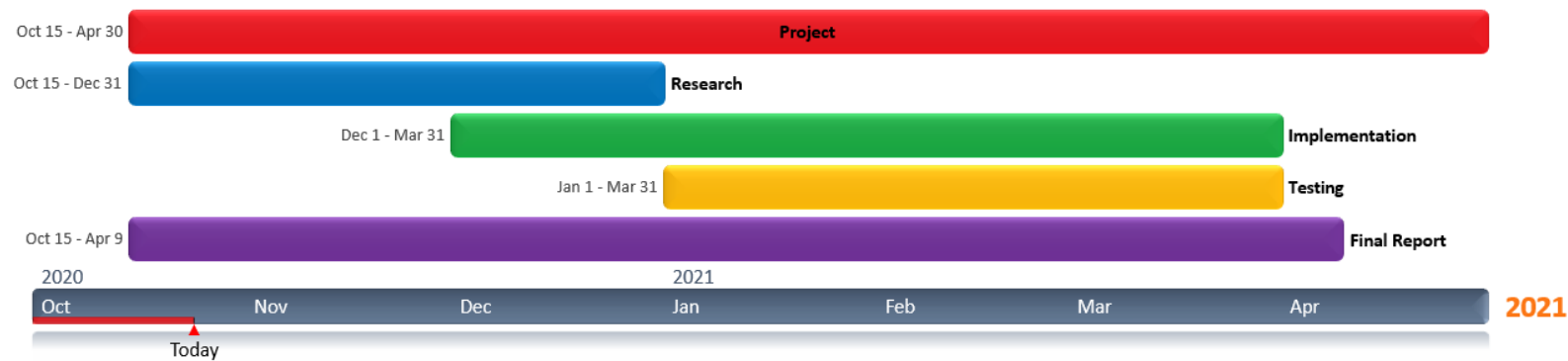
Current Barriers

- In order to get to the next step of the project, which is the implementation, there is a consistent amount of research that needs to be done.
- Being a completely new domain for me, it was a little difficult to find a starting point for literature review.
- However, I am confident that I can gain a good understanding of the scope and the next steps in the future weeks, as I am very determined to deliver a well-rounded project.

Next Steps

- Until next time:
 - Have a solid understanding of the methodologies needed for the project.
 - Come to a final decision on the technologies that I intend to use for the software.
 - Attempt an alpha version of the front end (if everything goes according to plan).
 - Have a small draft of the Final report, as well as for the Background and Specification Report.

Timeline



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Ethical Clearance

- As discussed with the supervisor, ethical clearance is not necessary for this project.