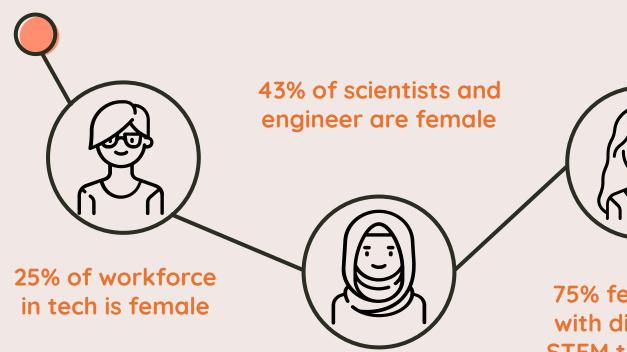


Problem





These percentages are A LOT worse for minorities, such as people of color, LGBTQ+, ethnic minorities and others.

75% fewer people with disabilities in STEM than general population





Causes



Social Stigma



Lack of interest & confidence



Implicit and explicit biases







Solution

STEM Inclusivity lab was created to support the active engagement of marginalized groups in STEM by providing open-source documentation for educators and youth leaders who aim to create inclusive spaces for these groups to get excited about STEM.

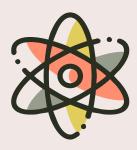


Goals









COMMUNITY



RESOURCES

2000 individuals

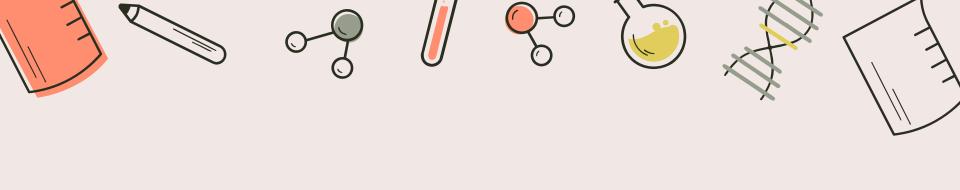
2 months

3 clubs

6 months

2 partners

1 year



Requirement Gathering & Project **Planning**

















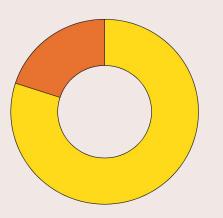
Requirements Survey



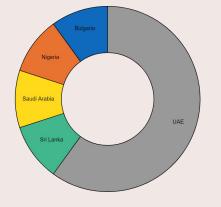
100% SHARE RESOURCES

100% DOWNLOAD

80% FORUM



8/10 participants identified as womxn in STEM.



6/10
participants
from UAE,
overall 5
countries
represented.



Software Requirements



- Search document by category and string input.
- Download document.
- Upload and modify document, with certain need for administrative approval.
- ☐ Multilingual interface English, Arabic, Slovenian and Turkish
- English documentation.
- ☐ Forum function to encourage participation, with certain need for administrative approval.
- ☐ Admin and User user cases
- Feedback collection.

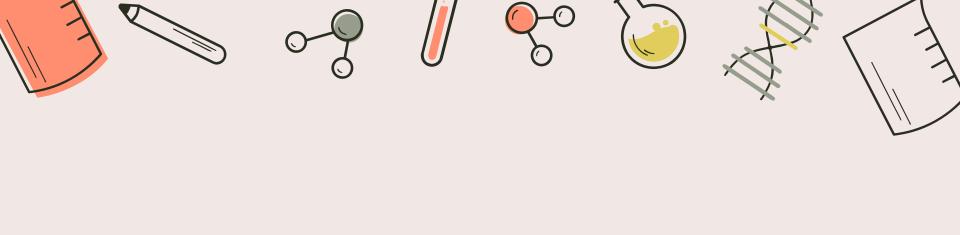
Process Model





Spiral with Agile



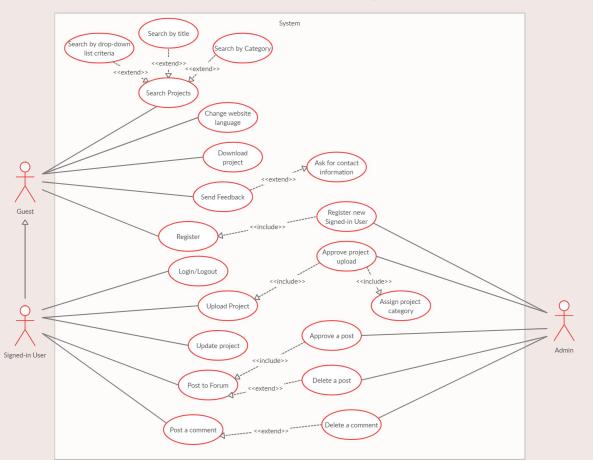


Modelling



Use Case Diagram

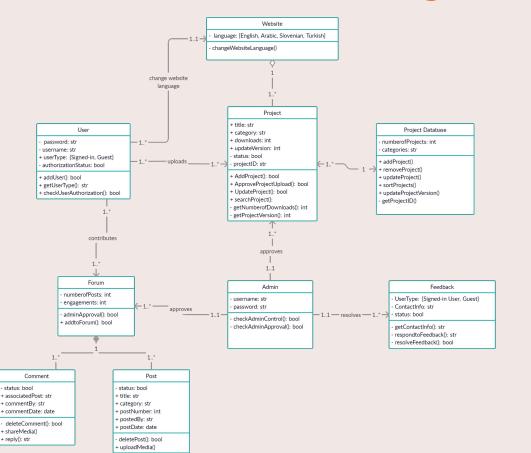






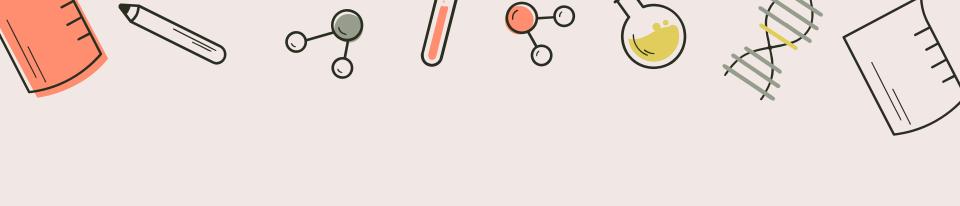
Class Diagram





- High Cohesion
- Low Coupling
- Creational Design Patterns





Implementation: Report



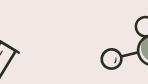














Technology



Server & Hosting

- GitHub pages for hosting
- Firebase for cloud database to store document

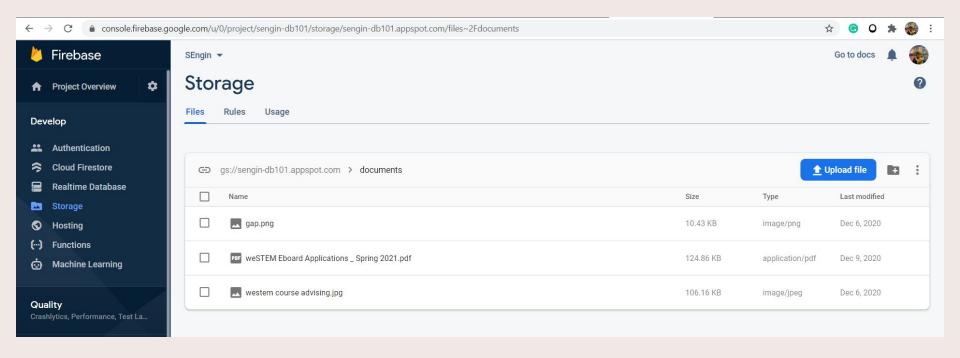
Front End

- ☐ HTML/CSS
- Bootstrap
- JavaScript















Overview



Website framework



Visual Identity



Upload



Download



Search



Additional

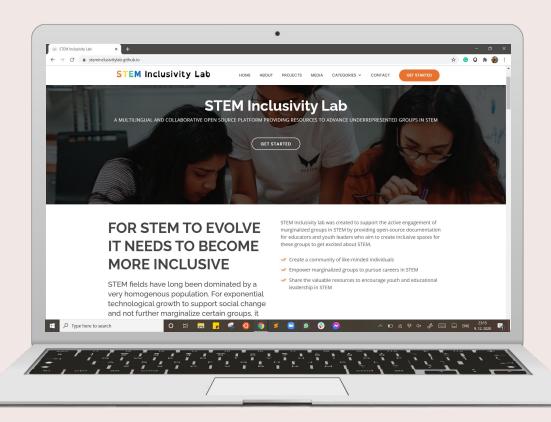
- ☐ Mailchimp and Google Analytics (through Firebase) to collect data on users.
- ☐ Sign up for newsletter through Mailchimp.
- **Media section** showcasing some of the more well-known programs from weSTEM that supports search by category.
- ☐ Testimonials section with displayed feedback from users.



Support for different devices









Visual Identity













Main Color

Orange (E87331)

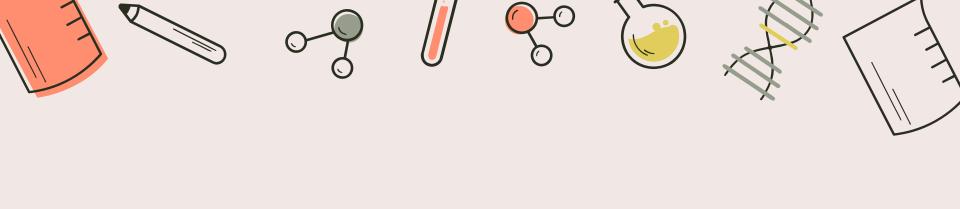
Logo Font

OpenDyslexic

Supporting Colors

Yellow (FFDA1A), green (42B78D) and blue (0F6ABE).





Implementation: Demo







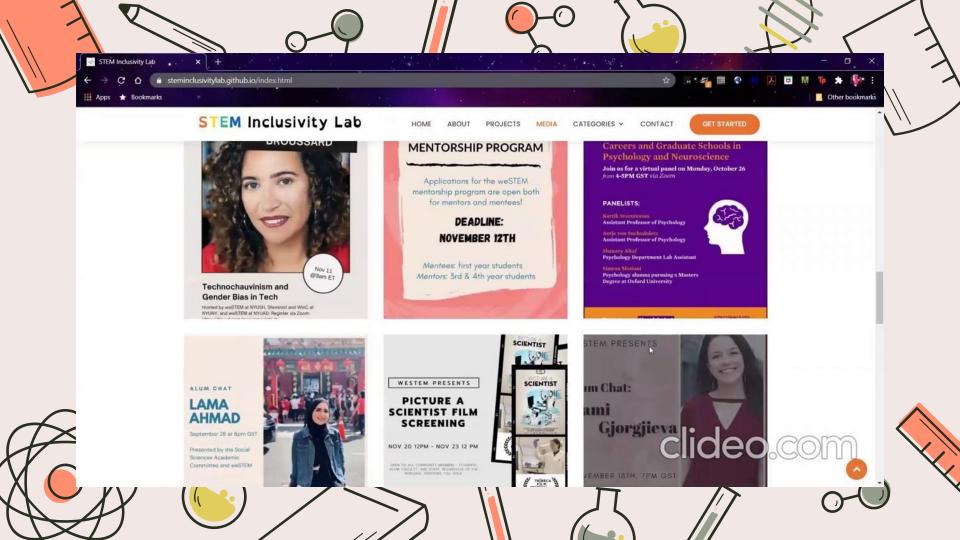


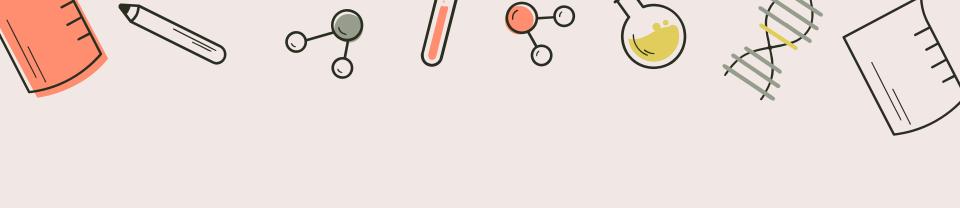












Implementation: Future



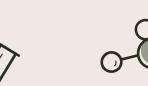














- Register and log-in.
- ☐ Improve upload and download.
- Modify.
- ☐ Make a step in the upload process that allows the admin to check the file.
- Admin and User user cases.
- ☐ Forum
- Unify the visual identity across the website and supportive documentation, providing everything in a mix of accessible fonts.











CREDITS: This presentation template was created by **Slidesgo**, including icons by **Flaticon**, and infographics & images by **Freepik**.





