

Static Page Redesigns - Akash Paloju

Section 1: About You

Goals and Objectives

Why do you want to do a GSoC project with Oppia?	<p>Having faced financial challenges during my education, I understand its value, and I was motivated to help students like me by developing intelligent solutions, which includes creating a <i>free</i> mock test platform. Fortunately, I found Oppia, whose mission closely aligned with my own ideals. Whenever I face challenges, such as my PR test failing, the innocent faces of children on the splash page always motivate me.</p> <p>In my journey with Oppia, I have gained valuable development skills and had the opportunity to collaborate with like-minded developers around the world, which helped me develop my communication, interpersonal, technical skills and technical writing. The active and helpful community is always ready to provide guidance and assistance, making Oppia the best platform for learning (for children) and contributing (for a contributor).</p> <p>I wish to do a GSoC project with Oppia to enhance the learning experience for many and to have a joyful collaborative experience with the supportive community. Even after GSoC, I will continue this wonderful journey by contributing to Oppia.</p>	
What do you hope to learn/achieve during GSoC?	I believe this experience will help me develop and enhance my web development skills. During this period, I aim to gain knowledge and expertise in various aspects of web development, including creating responsive layouts, developing accessible UIs, optimizing web page loading time, writing reusable and maintainable code, software testing and mastering debugging techniques. Additionally, it will provide me with valuable experience in project planning and execution, teaching me how to work efficiently within a given timeframe.	
Which Oppia teams have you collaborated with, and what have you done on those teams?	LaCE Team	Helped in this issue , to find the cause of the issue. Helped in this PR , to make the UI better. Filed this issue and created steps for fixing them Filed this issue and helped a contributor to solve that issue in this message
Contact information	Email : akashpaloju@gmail.com Discord : akash_paloju LinkedIn : Akash Paloju	
Preferred method of communication	Google Chat, Email, Discord	
Which time zone will you primarily be in during the summer?	Indian Standard Time (GMT +5:30)	

(If you are a student) When are your school holidays?	6 th May, 2024 - 31 st July 2024 (~85 days)
What other obligations might you need to work around during the summer?	<ul style="list-style-type: none"> • I have exams till May 6, 2024. • I will be traveling (24 hours) from my University to my hometown from May 9 to May 10. • I will be traveling (18 hours) from my hometown to my University from July 30 to July 31. • I have classes from August 1 - September 30.
Planned time commitment	As I will be on a summer break from May 7 to July 30 and have no other work or commitments during this time I will be able to commit ~35 hrs/week. From August 1 onwards , since I have classes , I will only be able to commit ~25 hrs/week. (But, in the 5th semester for me, there won't be much hectic classes like now) I can increase the hours based on the pace/requirements of the project. So, I will have enough time to complete it during my summer break.

Section 2: About Your Project

Project Details

Project title	Static page redesigns
Project size	Small
Why did you choose this project?	<p>To be honest, when I first visited the Oppia website, I bounced from one page to another to gain a clear understanding of what Oppia is about. After a few minutes of searching, I began to understand Oppia. Few days after I started contributing and when I showed it to my friends, some of them had the same experience.</p> <p>This confusion is also experienced by many parents, teachers, donors, volunteers, partners, and even some learners according to User Research. The successful completion of this project provides the information users seek most and <i>increases trust in the Oppia Foundation and its lessons</i>. It enables parents to improve their child's learning experience, teachers to improve the student's learning experience in their classrooms and interested volunteers and donors to support Oppia's cause. Also, it encourages partners and schools to increase their partnerships with Oppia, thereby enhancing the learning experience of larger student communities.</p> <p>This project has the potential to enhance user experience and expand Oppia's reach, thereby increasing the number of learners. Given my relevant knowledge and experience in building responsive UIs for our University hackathon website, I am motivated and well-equipped to undertake this project.</p>

Required Skills

WEB

I can write Python code with unit tests.	https://github.com/oppia/oppia/pull/19399 https://github.com/oppia/oppia/pull/19323
I can write TS + Angular code with unit tests.	https://github.com/oppia/oppia/pull/19529
I have good UI judgment and attention to detail.	https://github.com/oppia/oppia/pull/19529 https://github.com/oppia/oppia/pull/19325
I can debug and fix CI failures / flakes.	Site Language E2E Flake https://github.com/oppia/oppia/pull/19529
I can write or modify e2e or acceptance tests.	https://github.com/oppia/oppia/pull/19529
I can communicate effectively using debugging docs.	Site Language E2E Flake A TDD I have written earlier: Improving Saving Flow
I can write or modify Beam jobs.	N/A
I have participated in QA testing.	Release testing 3.3.8

Note : While drafting this proposal, I was concurrently working on the *full redesign of the Splash page*. The associated PR was not *merged* at the time of proposal submission. However, it will be available in my list of PRs when you read this. I believe that [PR](#) adds a significant value to my required skills. You can find all of my PRs [here](#).

Project Timeframe

Note: Oppia will only be offering a single GSoC coding period timeframe this year, starting on **May 27**. All work for Milestone 1 must be completed and submitted by **Jun 28** for internal feedback (with any revisions due by **Jul 8**), and all work for Milestone 2 must be completed and submitted by **Aug 12** for internal feedback (with any revisions due by **Aug 19**). We will not be able to extend these deadlines.

Coding period	<ul style="list-style-type: none"> I will adhere to the above deadlines.
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Communication Channels

Note: The Oppia team places a high emphasis on communication, and we have found that daily contact between contributors and mentors is important for helping keep projects on track. This is why we ask that contributors send short daily updates to their mentors explaining what they have done, where they are stuck, and what they plan to do next.

I can commit to sending daily updates to my mentor by email, each day I work during the GSoC	<ul style="list-style-type: none"> Yes
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period.	
In addition to the above: how often, and through which channel(s), do you plan on communicating with your mentor?	I will communicate with my mentor twice a week via Google Meet and will show my progress to the mentor. I will be active on google chat and Emails. I will put my daily updates in the LaCE group chat, so that not only my mentor, other maintainers are also able to know what's going on at any moment. I will ask any technical queries using the GitHub issue thread / my PR threads of the project so that it remains public and will help future Devs to understand why those decisions are taken during the project. (since I have faced this problem as a contributor why some decisions are taken in some parts of code during a previous GSoC project as some of those project decisions were taken by candidate and mentor in 1:1 setting).

Section 3: Proposal Details

Problem Statement

Link to PRD	 Compelling Informational pages_Oppia PRD_Dec 2023
Target Audience	The target audiences are: <ul style="list-style-type: none"> • Donors, Partners, Volunteers - for the 'About' page • Volunteers - for the 'Volunteer' page • Parents and Teachers - for the 'For Parents/Teachers' page
Core User Need	<p><i>For the About page</i></p> <ul style="list-style-type: none"> • Detailed Info about Oppia: As a donor/partner/volunteer, I need comprehensive information about Oppia to understand its purpose and operations. • Credibility of the Oppia Team: As a donor/partner/volunteer, I need to know who the Oppia teams are to trust the credibility of the platform. • Well-Defined Information about Oppia: As a donor/ partner/ volunteer I need clear information about Oppia's history, mission, vision, and future goals. • Type of Learning Platform: As a parent/teacher, I need to understand the type of learning platform (e.g. video-based learning, one-on-one learning, or online group learning) Oppia is to utilize it effectively. • Target Age Group: As a partner/parent/teacher, I need to know the age group that Oppia focuses on to determine if it's suitable for my child (parent) or student(teacher) or my school students (partner).

	<ul style="list-style-type: none"> • Functionality and Goals: As a donor/partner/volunteer/parent/teacher, I need to understand how Oppia functions, its strategies, values, mission, and goals. • Partners: As a donor/partner/volunteer, I need to know about the partners and organizations Oppia works with to assess the platform's reach and impact. • Testimonials: As a donor/partner/volunteer/parent/teacher , I need to see testimonials from schools and organizations that Oppia has worked with that shows the effectiveness of Oppia's lessons. • Impacts: As a donor/partner/volunteer/parent/teacher, I need to see success stories of Oppia , the overall impact the lessons have on children that went through it and detailed impact reports to evaluate the platform's effectiveness.
	<p><i>For the Volunteer page</i></p> <ul style="list-style-type: none"> • Time commitments: As a volunteer, I need to know the details of the time commitments required from me, so that I can be accountable and responsible for my engagements in the volunteering tasks. • Requirements: As a volunteer, I need to understand the requirements/skills expected from me, so that I can determine if I am suitable for the role. <p><i>For the 'For Parents/Teachers' page</i></p> <ul style="list-style-type: none"> • Credibility of the Lesson Creators: As a parent/teacher, I need to know about the lesson creators and the lessons' credibility. • Lesson Creation Process: As a parent/teacher, I need to know the steps taken to create the lessons clearly. • Testimonials: As a parent/teacher, I need to see testimonials from parents and teachers who used Oppia lessons. • Guide for teachers: As a teacher, I need to have a guide to use Oppia lessons in classrooms. • Guide for parents: As a parent, I need to have a guide to utilize Oppia lessons in union with lessons from my child's schooling.
What goals do we want the solution to achieve?	<ul style="list-style-type: none"> • Generate more leads with donors and volunteers • Users (donors, partners, volunteers, parents and teachers) will be able to understand about Oppia more effectively • These users can tell where they want to/can contribute.

Section 3.1: WHAT

Key User Stories and Tasks that will be implemented

#	Title	User Story Description (role, goal, motivation) "As a ..., I need ..., so that"	List of tasks needed to achieve the goal (this is the "User Journey")	Links to mocks / prototypes, and/or PRD sections that spec out additional requirements.
1	Volunteer Page	As a volunteer, I need to learn more about my eligibility, engagement commitments, so that I am accountable and responsible for my engagements in the volunteering tasks.	Open volunteer page Scan the page's content. Read thoroughly the task the user is interested in. Check the volunteer's eligibility, and commitments required from them. Fill out the interest form provided on the CTA.	Mocks <small>(Note: User study suggested that users liked it.)</small>
2	For Parents/ Teachers page	As a parent/teacher, I need to know about the lesson creators and the lessons credibility, so that I can recommend it to my child (parent)/ use it to teach in class (teacher).	Open 'For Parents/ Teachers' page. Scan the page's content. Read thoroughly the section that demonstrates the lesson creators and the lessons credibility. Parents recommend it to their children, and teachers use it in their classroom.	Mocks <small>(Note: User study suggested two users liked it)</small>
		As a teacher, I need to see how other teachers have used Oppia in their classrooms, so that I can use Oppia lessons in my classroom more effectively.	Open 'For Parents/ Teachers' page. Scan the page's content. Go to the blog page, and refer to the teachers' experiences to find ways of using the lessons	Mocks <small>(Note: User study suggested two users liked it)</small>
		As a parent(teacher,) I need to have a guide to utilize Oppia lessons in union with lessons from my child's schooling(use it in my classrooms) so that I can use Oppia lessons in union with my	Open 'For Parents/ Teachers' page. Scan the page's content. Open the given pdf-guide , and read thoroughly the section the parent/teacher is	

		child's schooling (in a classroom and group settings.)	interested in.	
			The Guide shared helps the parents (teachers) how to use the Oppia lessons in union with lessons from their child's schooling(use it in their classrooms)	
3	About page	As a user, I need to learn more about Oppia foundation aside from its products, so that I can decide if I would like to get involved. <i>'User' here is for volunteers, donors, and partners.</i>	Open About page Scan the page's content. Read thoroughly the section(s) the user is interested in. Fill out a form that you will find as you click on the button "Volunteer with Oppia", provided on the CTA. The Donor CTA button will start the procedure of the Donor box form by opening a Donorbox popup modal. The CTA button of volunteer redirects to this form and that of the partner redirects to this form . The partnership form will be translated into the language which the user has preferred on Oppia.	Mocks (Note: User study suggested 6 users liked it)

Note: I have taken the above user journeys with reference to the PRD.

Technical Requirements

Additions/Changes to Web Server Endpoint Contracts

#	Endpoint URL	Request type (GET, POST, etc.)	New / Existing	Description of the request/response contract (and, if applicable, how it's different from the previous one)
1.	/about-found ation	GET	Existing	Since the 'About Foundation' page will be removed, this Endpoint is no longer needed.

Calls to Web Server Endpoints

#	Endpoint URL	Request type (GET, POST,	Description of why the new call is needed, or why the changes to an existing call is needed

		etc.)	
1.	N/A	N/A	N/A

UI Screens/Components

#	ID	Description of new UI component	i18n required?	Mock/spec links	A11y requirements																				
1.	/about	Modified UI of the About page to include the required information	Yes	Desktop Tablet Mobile-landscape Mobile-portrait	alt text for images, Talkback support																				
2.	/volunteer	Modified UI of the Volunteer page to include the required information	Yes	Desktop Tablet Mobile-landscape Mobile-portrait	alt text for images, Talkback support																				
3.	/teach	Modified UI of the For Parents and Teachers page to include the required information	Yes	Desktop Tablet Mobile-landscape Mobile-portrait	alt text for images, Talkback support																				
4	Custom Accordion	A custom accordion component for displaying the active - item (fully) and hiding inactive items, for About page (Desktop) and Parent/Teachers page. (This component is re-usable throughout the app) (API)	Yes	<p>About page mocks1, figma1</p> <p>Features</p> <table> <tr><td>Accessible technology</td><td>+</td></tr> <tr><td>Content relevance</td><td>+</td></tr> <tr><td>Localization-friendly</td><td>+</td></tr> <tr><td>Free-of-cost</td><td>+</td></tr> </table> <p>Parent/teachers: mocks2, figma2</p> <p>The lesson creation process</p> <table> <tr><td>1. Skill tree</td><td>+</td></tr> <tr><td>2. Skill table</td><td>+</td></tr> <tr><td>3. Story outline</td><td>+</td></tr> <tr><td>4. Script</td><td>+</td></tr> <tr><td>5. Internal review</td><td>+</td></tr> <tr><td>6. Implementation</td><td>+</td></tr> </table>	Accessible technology	+	Content relevance	+	Localization-friendly	+	Free-of-cost	+	1. Skill tree	+	2. Skill table	+	3. Story outline	+	4. Script	+	5. Internal review	+	6. Implementation	+	alt text for images, Talkback support
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5.	Bar chart component	A new bar chart component for showing the bar charts in the About Page. This will be used in About page only and it isn't used anywhere in the whole app. (API)	Yes	mocks , figma	Talkback support																				

				<p>Top 10 countries using the Oppia website</p> <table border="1"> <thead> <tr> <th>Country</th> <th>Users</th> </tr> </thead> <tbody> <tr><td>United States</td><td>more than 2k users</td></tr> <tr><td>India</td><td>~1.8k</td></tr> <tr><td>United Kingdom</td><td>~1.5k</td></tr> <tr><td>Brazil</td><td>~1.2k</td></tr> <tr><td>Canada</td><td>~1.0k</td></tr> <tr><td>Nigeria</td><td>~800</td></tr> <tr><td>Netherlands</td><td>~600</td></tr> <tr><td>Egypt</td><td>~400</td></tr> <tr><td>Turkey</td><td>~300</td></tr> <tr><td>Belgium</td><td>~200</td></tr> </tbody> </table> <p>Top 10 countries using the Oppia Android app</p> <table border="1"> <thead> <tr> <th>Country</th> <th>Users</th> </tr> </thead> <tbody> <tr><td>Brazil</td><td>more than 3k users</td></tr> <tr><td>Pakistan</td><td>~2.5k</td></tr> <tr><td>Angola</td><td>~2.0k</td></tr> <tr><td>Kenya</td><td>~1.8k</td></tr> <tr><td>Cameroun</td><td>~1.5k</td></tr> <tr><td>Mozambique</td><td>~1.0k</td></tr> <tr><td>India</td><td>~800</td></tr> <tr><td>Nigeria</td><td>~600</td></tr> <tr><td>Indonesia</td><td>~400</td></tr> <tr><td>Tanzania</td><td>~300</td></tr> </tbody> </table>	Country	Users	United States	more than 2k users	India	~1.8k	United Kingdom	~1.5k	Brazil	~1.2k	Canada	~1.0k	Nigeria	~800	Netherlands	~600	Egypt	~400	Turkey	~300	Belgium	~200	Country	Users	Brazil	more than 3k users	Pakistan	~2.5k	Angola	~2.0k	Kenya	~1.8k	Cameroun	~1.5k	Mozambique	~1.0k	India	~800	Nigeria	~600	Indonesia	~400	Tanzania	~300	
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6.	oppia-secondary-button	A new custom secondary button component (This component is re-usable throughout the app). Implementation is discussed in the oppia-secondary-button section below.	Yes	<p>Default Hover Active Disabled</p> <p>Button Button Button Button</p>	Talkback support																																												

Data Handling and Privacy

The type of data being gathered is basic data like page views, bounce rate, and traffic sources. These are already illustrated in the existing [Privacy policy](#) in the existing section of 'Google Services' explaining the use of Google Analytics (GA) and the ability to opt out from tracking through Google Analytics cookies. It also describes the use of GA and the type of data it collects.

Thus, the section 'Google Services' illustrated on the existing Privacy policy of the Oppia website suffices as the privacy consideration of this TDD.

Other Requirements

1. The Bar chart component will be developed using an existing dependency, i.e. the google.visualization library (it is used in the existing [pie chart component here](#)).
2. The Custom Collapsible Component, Custom Accordion component will be developed using an existing dependency - NgbCollapseModule from @ng-bootstrap/ng-bootstrap library (See [here](#))
3. Donor section will be developed using an existing dependency in the donor page - donorbox

Only the above 3 third-party libraries are required for this project.

Questions asked

1. [Navbar UI suggestions \(accepted\) in figma](#)
2. [Missing details in Static Page Redesigns mocks](#)
3. [Missing timeline in landscape/portrait views of Static Page Redesigns mocks](#)
4. [CTA section blank space in mocks](#)

5. [CTA section user interaction](#)
6. Can we make these as carousel components? How can we draw a common component out of these, as all these have similar UI and functionality?
Answer : Discussed in the [Custom Carousel section below.](#)

<p>In About Page</p> <p>Partners with on-the-ground tutors</p> <p>Valued partner: Centre for Youth Studies</p> <p>Recommends our lessons to schools/households in their communities so that students can use them at home, potentially with parental support.</p>  <p>● ○ ○ ○</p>	<p>In About Page</p> <p>Volunteer</p> <p>This is a community project and all volunteers are welcome!</p> <p>▲</p> <p>Development</p> <p>This team simplifies our platform and makes sure it's easy to use. Responsibilities include:</p> <ul style="list-style-type: none"> ○ Developing new features ○ Improving the Oppia platform ○ Keeping Oppia running <p>○ ● ○ ○ ○ ○</p>	<p>In parent/teacher page</p>  <p>Riya Sogani, India Volunteer teacher</p> <p>"I am grateful to have had the opportunity to educate underprivileged Indian children and bridge the gaps in their understanding of critical math concepts. Watching these students' confidence increase as they learnt was worth the extra hours."</p> <p>● ○ ○</p>
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Section 3.2: HOW

Existing Status Quo

The About Page:

- Lack of details about Oppia's team, goals, visions and mission, how Oppia runs, its supporters, and its impacts raising doubts about credibility of Oppia platform
- Lack of details about roles and contributions of volunteers, donors, and partners.

The 'For Parents/Teachers' page :

- Oppia lessons' and creators' credibility and lesson creation process is not present.
- No guide for integrating Oppia lessons with a student's formal education
This hinders trust and effective use by parents and teachers.

The Volunteer page:

- Lack of details about time commitment and prerequisites hinder volunteers' participation with Oppia.

Solution Overview

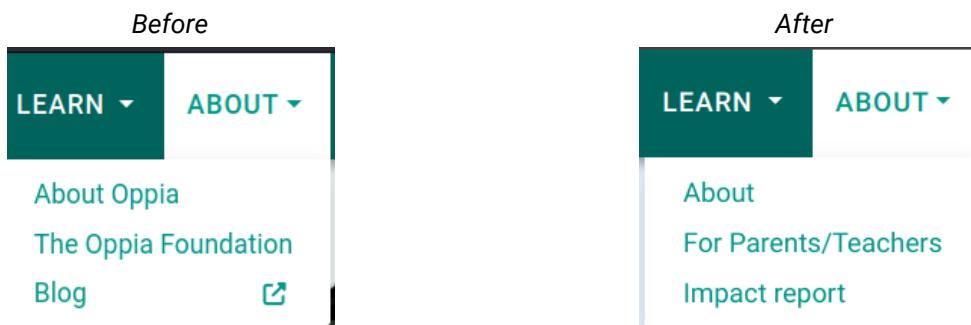
To improve the UX and address the problems mentioned above, the following steps will be taken.

➤ Navbar :

A new breadcrumb in the 'For Parents and Teachers' page will be added as follows:

Oppia > For Parents/Teachers

Since all the required information and CTAs will be provided in the 'About' page, the 'About Foundation' page will be removed and it will also be *removed from the Navbar* in the About dropdown. As per User Research the 'Blog' button will also be removed from the 'ABOUT' dropdown and a new 'Impact Report' button which directs to this [report](#) will be added in the 'ABOUT' dropdown. Also, a new 'For Parents/Teachers' button which directs to the Parent/Teacher page will be added in the ABOUT' dropdown.



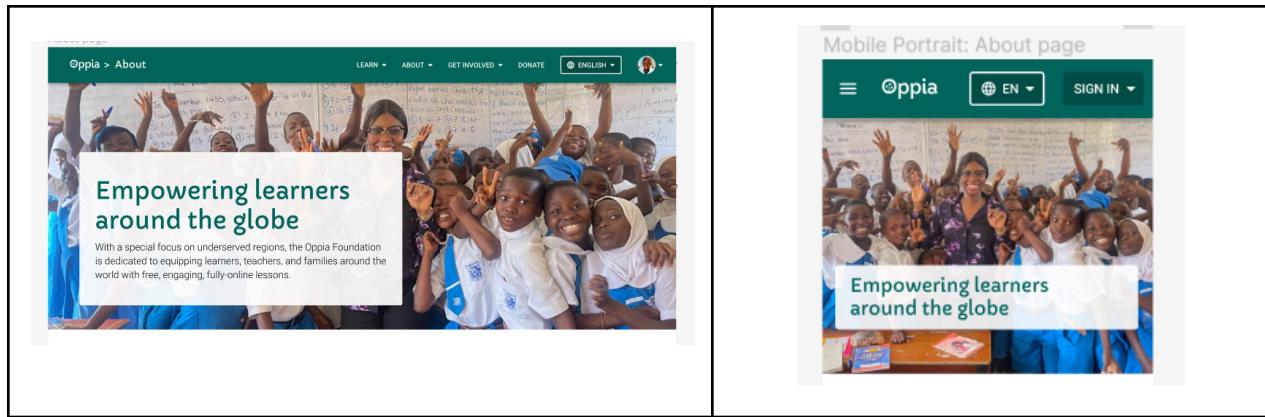
➤ About page:

The About page will be completely redesigned. The following sections will be present in the new About Page.

1. **Detailed Information content:** This includes the history, vision, mission, future goals, products of the Oppia Foundation and the features, type of learning platform, target audience of Oppia and who the Oppia team is. The 'Explore lessons' button in this section redirects users to the '[Lesson](#)' page and the 'Download the Android app' button redirects to '[Android](#)' page.

- The hero-section

Desktop, Tablet, Mobile-Landscape	Mobile-Portrait
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- The Products sub-section

Desktop,Tablet,Mobile-Landscape	Mobile-Portrait
<p>The Oppia foundation and its products</p> <p>The Oppia Foundation is a 501(c)(3) nonprofit focused on providing quality education to those who lack access to it. We work towards this through the creation of free, engaging, and effective lessons built on our online learning platform, Oppia.</p> <p>Our classrooms are built from several topics that are built on a specific subjects. These topics have different chapters offering step by step learning. Within the each topics, revision cards and practice questions are provided.</p> <div style="display: flex; justify-content: space-around;"> <div style="background-color: #e0f2f1; padding: 10px; width: 45%;"> Mission Empower learners across the globe by providing access to high-quality, engaging education. </div> <div style="background-color: #e0f2f1; padding: 10px; width: 45%;"> Vision A world where access to high-quality education is not a privilege, but a universal human right. </div> </div>	<p>How we got started and where we're headed</p> <p>Oppia started as a team of 15 volunteers with a passion for providing high-quality education to every child, regardless of their circumstances. We built an open-source platform allowing educators to create free, online lessons for their students.</p> <p>We've since expanded to over 200 volunteers, partners and donors who work tirelessly to ensure our lessons are impactful and accessible to all. Through our strong partnerships, we hope to continue to grow and reach even more learners worldwide.</p> <div style="display: flex; justify-content: space-around;"> <div style="background-color: #e0f2f1; padding: 10px; width: 45%;"> Mission Empower learners across the globe by providing access to high-quality, engaging education. </div> <div style="background-color: #e0f2f1; padding: 10px; width: 45%;"> Vision A world where access to high-quality education is not a privilege, but a universal human right. </div> </div>

- The Timeline sub-section

Desktop	Mobile-Landscape
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<p>Timeline</p> <p>2015 Started as a team of 15 with a goal of providing access to free education for all.</p> <p>2023 A mission-driven team of over 200 volunteers, educators and donors maintaining a 70+ Oppia lessons, available in different languages.</p> <p>2025 and onwards Continue to strengthen our partnerships and spread awareness of Oppia, allowing underserved communities to benefit worldwide.</p>	<p>Timeline</p> <p>2015 Started as a team of 15 with a goal of providing access to free education for all.</p> <p>2024 A mission-driven team of over 200 volunteers, educators and donors maintaining a community library of over 70 lessons, available in different languages.</p> <p>2025 and onwards Continue to strengthen our partnerships and spread awareness of Oppia, allowing underserved communities to benefit worldwide.</p>
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- The Features-subsection - highlighting the 'Free-of-cost' feature.

Desktop	Tablet	Mobile																																		
<p>When no items are opened:</p> <p>Features</p> <table> <tr> <td>Accessible technology</td> <td>+</td> </tr> <tr> <td>Content relevance</td> <td>+</td> </tr> <tr> <td>Localization-friendly</td> <td>+</td> </tr> <tr> <td>Free-of-cost</td> <td>+</td> </tr> </table> <p>When 1 item is opened:</p> <p>Features</p> <table> <tr> <td>Accessible technology</td> <td>-</td> </tr> <tr> <td>Oppia can be accessed from anywhere in the world, and our Android app even supports offline learning.</td> <td></td> </tr> </table>	Accessible technology	+	Content relevance	+	Localization-friendly	+	Free-of-cost	+	Accessible technology	-	Oppia can be accessed from anywhere in the world, and our Android app even supports offline learning.		<p>Features</p> <table> <tr> <td>Accessible technology</td> <td>-</td> </tr> <tr> <td>Oppia can be accessed from anywhere in the world, and our Android app even supports offline learning.</td> <td></td> </tr> <tr> <td>Localization-friendly</td> <td>+</td> </tr> <tr> <td>Free-of-cost</td> <td>-</td> </tr> <tr> <td>We believe that free education is a universal right.</td> <td></td> </tr> </table>	Accessible technology	-	Oppia can be accessed from anywhere in the world, and our Android app even supports offline learning.		Localization-friendly	+	Free-of-cost	-	We believe that free education is a universal right.		<p>Features</p> <table> <tr> <td>Accessible technology</td> <td>-</td> </tr> <tr> <td>Oppia can be accessed from anywhere in the world, and our Android app even supports offline learning.</td> <td></td> </tr> <tr> <td>Content relevance</td> <td>+</td> </tr> <tr> <td>Localization-friendly</td> <td>+</td> </tr> <tr> <td>Free-of-cost</td> <td>-</td> </tr> <tr> <td>We believe that free education is a universal right.</td> <td></td> </tr> </table>	Accessible technology	-	Oppia can be accessed from anywhere in the world, and our Android app even supports offline learning.		Content relevance	+	Localization-friendly	+	Free-of-cost	-	We believe that free education is a universal right.	
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2. The Partnerships and Impact section: This section includes testimonials from partners, schools and organizations that Oppia has worked with. It also includes the impact of Oppia, displaying the substantial increase in the number of learners of Oppia platforms using graphs and providing the impact report of Oppia. The 'View report' button will direct the users to the link [Impact report 2022](#).

- The Partners-sub-section.

Our partnerships and how we're improving lives

Oppia works with several partners worldwide to deliver our lesson material to students in regions with limited internet access. Here are a few of them:

Partners with on-the-ground tutors

Valued partner: **Centre for Youth Studies**



Centre for Youth Studies recommends our lessons to schools/households in their communities so that students can use them at home, potentially with parental support.

Partners providing after-school activities

Valued partner: **Special Youth Foundation**



Special Youth Foundation provides our Android app and Web-based activity that students can do in groups after school.

Partners with some devices but no computer labs

Valued partner: **Destiny Trust**



Destiny Trust provides learning opportunities for homeless children in shelters, in some cases utilizing classroom projectors to enhance the experience.

Embedded Learning in NGO Platforms

Globally recognized NGOs like **UNICEF**



Oppia Foundation provides UNICEF with Oppia lessons as an embedded activity in their learning passport application, so that it can reach the audiences they serve in Iraq and elsewhere.

Desktop

Our partnerships and how we're improving lives

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Partners with on-the-ground tutors

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Tablet

Mobile-Portrait,Landscape



● ○ ○ ○

- The Impact sub-section

Desktop

Mobile

The Oppia impact

Since we first launched in 2015, Oppia's number of users has expanded substantially. We're proud to announce the following milestones as of 2024.

10,500+	2 million +	100k +	70+
Active users	Total website visitors	App downloads	Lessons available for free

Top 10 countries using the Oppia website	
United States	0
India	.5k
United Kingdom	1k
Brazil	1.5k
Canada	2k
Nigeria	more than 2k users
Netherlands	
Egypt	
Turkey	
Belgium	

Top 10 countries using the Oppia Android app	
Brazil	0
Pakistan	.5k
Angola	1k
Kenya	1.5k
Cameroon	2k
Mozambique	3k
India	more than 3k users
Nigeria	
Indonesia	
Tanzania	

See our annual highlights and reflections [View report](#)

The Oppia impact

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Active users	Total website visitors

100k +	70+
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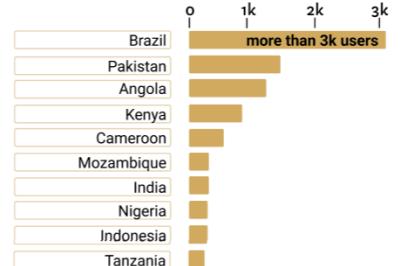
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Cameroon	more than 3k users
Mozambique	
India	
Nigeria	
Indonesia	
Tanzania	

See our annual highlights and reflections [View report](#)

14

3. The Get Involved(CTA) section : This section includes the information about different volunteer roles available, partners of Oppia and the Donate CTAs. The Donor CTA button will start the procedure of the Donor box form by opening a Donorbox popup modal. The CTA button of volunteer redirects to this [form](#) and that of the partner redirects to this [form](#). The partnership form will be translated into the language which the user has preferred on Oppia and will work in the same way like in the partnerships page currently (please refer to the changes in this [PR](#)). The 'Learn More' buttons for donate, volunteer, partner tabs here redirect to [donate](#), [volunteer](#), [partnerships](#) pages respectively. The text "Read stories from our community" redirects to the [Blog](#) page.

Volunteer CTA (default) - Desktop

Get involved

Our volunteers, partners, and donors are the backbone of Oppia.
[Read stories from our community](#) →

You can become a part of our mission in the following ways:

Donate	Volunteer	Partner
Growth Growth team helps us spread the word about Oppia and empower learners. Responsibilities include: <ul style="list-style-type: none"> • Developing our marketing strategy • Being a community advocate • Building partnerships 	Development This team simplifies our platform and makes sure it's easy to use. Responsibilities include: <ul style="list-style-type: none"> • Developing new features • Improving the Oppia platform • Keeping Oppia running 	Art and Design Illustrations help learners visualize concepts. Responsibilities include: <ul style="list-style-type: none"> • Defining design initiatives (UX/UI) • Producing graphics

[Volunteer with Oppia](#)
|
[Learn more](#)

Donor CTA

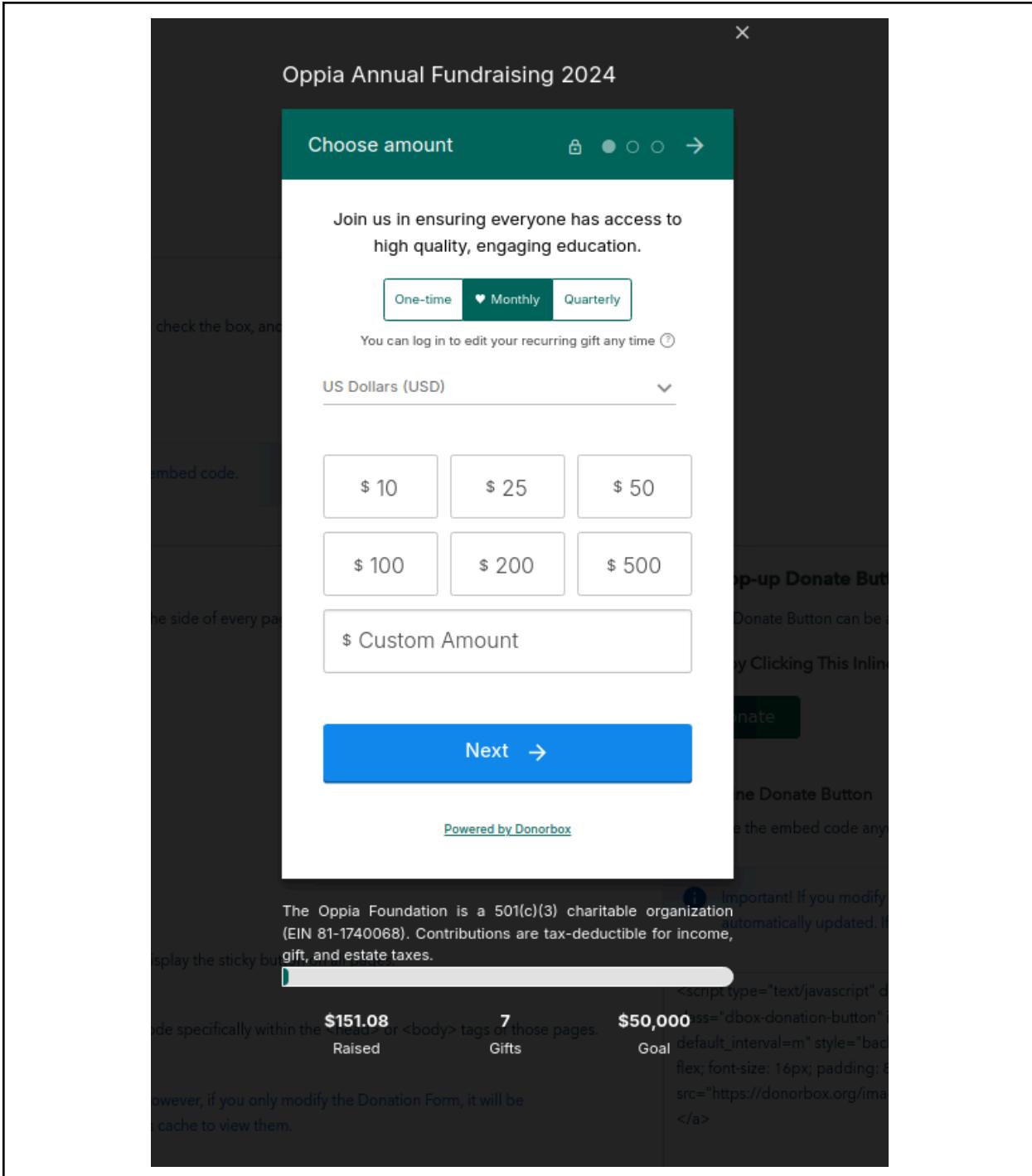
Oppia

Oppia's mission is to provide a learning platform that meets the unique needs for under resourced communities.

Join our mission to provide global access to quality education. Every contribution makes a difference. Donate now and help us empower learners worldwide.

Your \$10 could provide the funds needed to educate 25 children on our platform.	Your \$25 could help educate 20 children through a partner organization for a day.	Your \$100 could buy a phone for a child in Nigeria, helping them access education without the need for a high-speed Internet connection.
--	--	---

Heart
|
[Donate](#)



Partner CTA

Our partners

Our global network collaborates with us to make quality education more accessible.

[Partner with us](#)

Schools & organizations

We're eager to partner with schools and NGOs that want to integrate digital tools to support students' learning.

[Learn more](#)

Mobile

Partner

Each partnership is coordinated to meet partners' significant needs.

Our partners

Our global network collaborates with us to make quality education more accessible.

[Partner with us](#)

Schools & organizations

We're eager to partner with schools and NGOs that want to integrate digital tools to support students' learning.

[Learn more](#)

Donate

Volunteer

This is a community project and all volunteers are welcome!



Growth

Growth team helps us spread the word about Oppia and empower learners. Responsibilities include:

- Developing our marketing strategy
- Being a community advocate
- Building partnerships

[Volunteer with Oppia](#)[Learn more](#)

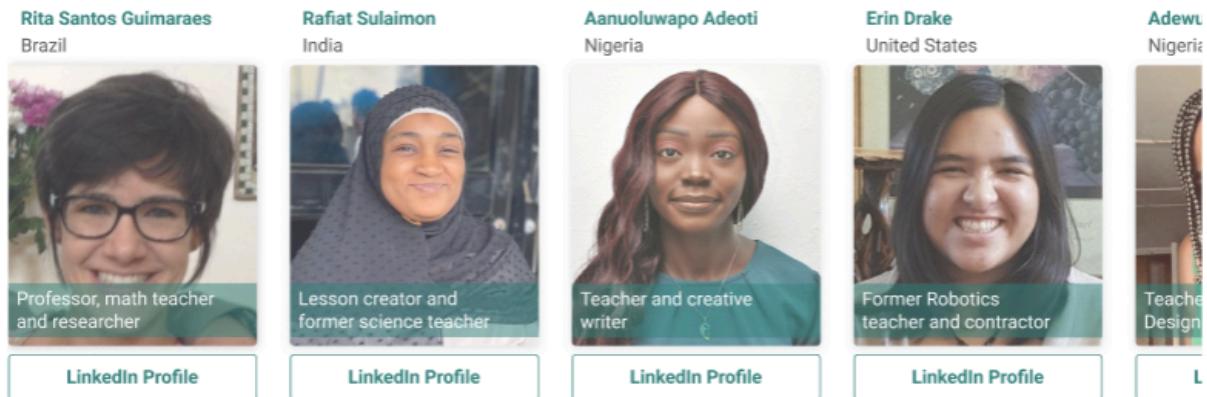
Partner

➤ For Parents/Teachers page:

The new sections added in this page are :

1. The Lesson Creators section: This section includes Oppia's lesson creation team, their roles, their nationalities and their LinkedIn profiles demonstrating the lesson creators' credibility.

Our lesson creator team



2. The Lesson Creation process: This section includes Oppia's lesson creation process and steps taken to verify Oppia lessons, in order to demonstrate the Oppia lessons' credibility.

All steps listed	A single step is opened (occupies full space)
<p>The lesson creation process</p> <ul style="list-style-type: none"> 1. Skill tree + 2. Skill table + 3. Story outline + 4. Script + 5. Internal review + 6. Implementation + 	<p>1. Skill tree</p> <p>Creators come up with a list of skills to be taught for each topic. Skills are based on curricula gathered from around the world and take into consideration the age range of the target audience</p>  <pre> graph TD TOPIC[TOPIC] --> SUBTOPIC1[SUBTOPIC 1] TOPIC --> SUBTOPIC2[SUBTOPIC 2] TOPIC --> SUBTOPIC3[SUBTOPIC 3] SUBTOPIC1 --> SKILL1[SKILL 1] SUBTOPIC2 --> SKILL2[SKILL 2] SUBTOPIC2 --> SKILL3[SKILL 3] SUBTOPIC3 --> SKILL4[SKILL 4] </pre>

3. The 'Check out our Guide' directs to this [pdf](#) which guides parents/(teachers) how to use Oppia lessons in union with lessons from student's schooling / (in classrooms). The 'Check out our Blog' button directs to blogs on the blog page, tagged with 'Teacher story', sharing teachers' experiences with Oppia lessons. Guide for tagging blogs with the new 'Teacher story' tag -

 Guide for adding tags for other users' blog posts

Looking for guides & tips on how to use Oppia lessons?

The Oppia Foundation offers a guide to help parents and teachers get started with Oppia lessons and learn how to use them effectively in the classroom or at home.

[Check out our guide](#)

Learn from educators!

Oppia publishes blog posts featuring volunteer teaching experiences.

[Check out our blog](#)

4. An Outcomes section which shows the RCT charts (This section is same as the Outcomes section in the current About page)

Outcomes

We strive for effectiveness and excellence. That's why we continuously conduct user studies and randomized trials to ensure our lessons live up to our high standards.

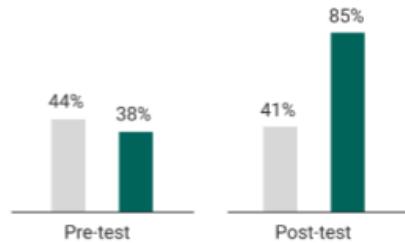
Learning Fractions with Oppia

We tested a fractions lesson in our Math class using a randomized controlled trial, And here are the results.

RCT Outcomes

Legend

Control
Oppia



This statistics are for topics that were encountered by all the students in the study.

➤ Volunteer page:

A new sub-section will be added in the 'Meet our Volunteers' section which includes the details of time commitments required from volunteers (at least in terms of maximum and minimum for the different tasks), and the requirements needed from the volunteer candidates for all volunteering roles available. Additionally, the Layout(ordering) and appearance of the 'Meet our Volunteers' section will be changed slightly.

Mobile

< Development >

Our impact and responsibilities

Oppia's mission is to create an effective and easy-to-use learning platform for students around the world to gain access to education. Our learning platform is built and maintained by volunteer developers who share our mission of making education accessible to students of all backgrounds.

Developing new features

Create an accessible UX (user experience) through writing and design on all platforms so that anyone can conveniently learn from Oppia's high-quality lessons and navigate our website and application.

Improving the Oppia platform

Improve Oppia's learning infrastructure by ensuring that it runs smoothly and smartly to better support student success and ensure students do not get stuck.

Keeping Oppia running

Improve the overall performance of the Oppia platform and strengthen the technical codebase.



"Making quality education accessible and fun to experience is something that is important to me. I enjoy contributing to Oppia because it does exactly this."

Kevin Thomas
Full-stack developer

Development

Volunteer expectations

We ask that all volunteers to:

- Commit to at least 5 hours per week
- Attend mandatory team meetings
- Reply to emails within 2 days
- Have the ability to collaborate using Google Docs/Sheets.

Preferred volunteer skills

Developing new features, improving the Oppia platform, and keeping Oppia running

- Angular and Python development
- Writing tests
- Test new features
- Give feedback on new features

Meet our volunteers

Growth

Development

Art and design

Translation

Lesson creation

Our impact and responsibilities

Oppia's main focus as an educational organization is serving under-resourced students from around the world. Our volunteers aim to expand Oppia's global reach, and partner with organizations to further expand access to equitable education.

Building partnerships

Establish trust with our partner schools and organizations to get Oppia's lessons in the hands of students. Oppia's partnerships are an integral part of our mission to create an equitable learning ecosystem.

Developing our marketing strategy

Curate content on our blog and Facebook, Instagram, and Twitter pages to reach more learners, and expand awareness of Oppia's resources.

Being a community advocate

Work with local ambassadors, such as students and educators, to introduce Oppia's educational tools to more communities.



"I contribute to oppia because of its remarkable goal: to make a quality education available to those who may not have easy access to it"

Mark Halpin
Artist

Growth

Volunteer expectations

We ask that all volunteers to:

- Commit to at least 5 hours per week
- Attend mandatory team meetings
- Reply to emails within 2 days
- Have the ability to collaborate using Google Docs/Sheets.

Preferred volunteer skills

Building partnerships and being a community advocate

- Communication
- Critical Thinking
- Collaboration
- Time Management

Developing our marketing strategy

- Content Creation & Management
- Campaign Management
- Strategic Thinking
- Data Analysis & Measurement
- Relationship Building & Influence

(Desktop)

Third-Party Libraries

No new third-party libraries are required

"Service" Dependencies

This feature adds no new service dependencies.

Impact on Other Oppia Teams

The following teams would have some impact :

- The Partnerships team needs to maintain the guides for parents/teachers and make sure those links don't break in the future. [WIP] Partnerships Team Lead Guide
- The Programs team needs to maintain impact measurement reports similarly [WIP] Impact Measurement Team Lead Guide
- The lessons team needs to maintain an updated list of teachers and their LinkedIn profile URLs.

Key High-Level Decisions:

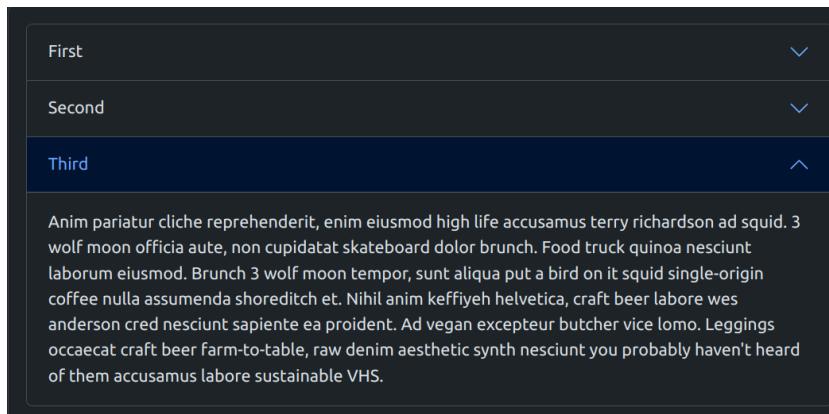
Decision 1: Development of Accordion of About Page, Parent/Teacher Page

I have considered the following alternatives:

1. Using the Accordion component in [NgbAccordionModule](#) from @ng-bootstrap/ng-bootstrap package / [expansion panel](#) from material-ui
2. Create a Custom Accordion component by using [NgbCollapseModule](#) from @ng-bootstrap/ng-bootstrap package and customize it according to the given mocks. (See how this is implemented [below](#) in the Implementation Approach)

Among these, I believe that second is the best approach, because:

- According to the API of [NgbAccordionModule](#) and [expansion panel](#), the list items are vertically stacked in all the cases (if any item is closed or not) like this



(ngbootstrap)

The screenshot shows a light-themed accordion component. It has two items: "Personal data" and "Destination". "Personal data" is expanded, showing two input fields: "First name" and "Age". The "Destination" item is collapsed, showing a field "Type the country name". Below these are two more items: "Day of the trip" and "Day of the trip", each with a corresponding input field.

(material-UI)

But the desired UI as per the 'dev notes in [mocks](#)' says, if one of the panels is open the remaining all list-of-items should be closed. See this [bookmark](#) for clarification. So we cannot replicate the desired UI if we use approach 1.

- In both the About page (only Desktop view) and the Parents/Teachers page, the UI of the Accordion is similar. The opened item will occupy the whole space of the component, and only that selected item will be visible, unlike traditional accordions used elsewhere on the Oppia website (for example, the FAQs section in the [Partnerships](#) page). Therefore, creating a new

component will help us avoid writing similar code for both the 'Features section (desktop)' and the 'Lesson Creation Process' twice, enhancing *code reusability*.

- So, creating a component and giving the required [@Input](#) parameters to that will do the job and will also be useful for the future.

The above approaches are contrasted in the following table:

Aspect	Alternative 1:	Alternative 2:
Ability to Replicate the desired UI	No	Yes
Code reusability	No	Yes

Decision 2: Development of Bar Charts of About Page

I have considered the following alternatives to create the component:

1. We can pass the color, scale and data array (countries, numbers) to the bar chart and create the required bar chart from plain HTML,CSS, Bootstrap using background-color, and adjusting the bar's width with '%' units to achieve the required length, according to statistics data.
2. We can utilize the popular [charts.css](#) library which uses lightweight semantic HTML,CSS to create the bar charts. We can replicate the given mocks completely as it is highly customizable.
3. We can utilize the google.visualization library as it has rich-accessibility features and is customizable.
4. We can simply put the images of bar charts from mocks similar to the current [about](#) page (for showing RCT outcomes bar charts, an image is being used currently).

Among these, I believe that **second** is the best approach, because:

- The charts.css library makes it easy for creating graphs and which reduces the time of development and after adding some more styles in CSS we can easily make it responsive
- The charts.css library is lightweight - it doesn't make the page-loading slow like google.visualization library
- The installation process of charts.css is simple - we need to download a css file (~ 75Kb) and put it in the same folder of our global stylesheet oppia.css.
- The screen readers will be able to read only the 'alt - text' of the image and not the text in the image. So, screen readers can't interpret the statistics in the bar chart like the ' more than 2K learners ' text.

Aspect	Plain HTML,CS S	charts.css	google.visualization library	Images of bar charts from mocks
Development time for creation of bar chart	High	Low	Low	Low
Development time for improving accessibility of bar chart	High	Low	Low	Not possible at all (screen readers can't read text in an image)
Existing	No	No(need	Yes (existing)	Yes

dependency/pattern		to install it)		
Page loading /page performance	Good	Good	Bad	Good

Decision 3: Removal of /about-foundation (The Oppia Foundation Page)

Since we are including the information of Oppia Foundation and the current CTA section of ‘Oppia Foundation Page’ in the new ‘About’ page, we need to remove the ‘The Oppia Foundation Page’ No other alternatives were possible.

Risks and mitigations :

Potential Risk	Mitigation
All users might not find the information provided in the Informational pages to be sufficient or explanatory enough.	<p>Mitigation 1: The contents will be reviewed by UX writers, and redirecting links that will help users learn about extra information will be added. Such instances are Annual Report file, Impact report file, and Blog page.</p> <p>Mitigation 2: Conducting UXR with the revised pages will help to determine whether the information provided had been sufficient or explanatory enough.</p>

Implementation Approach

[Web only] Storage Model Layer Changes

N/A

[Web only] Storage Model Migrations

N/A

Domain Objects

N/A

Documentation changes

N/A

User Flows (Controllers and Services)

Only web-page routes (/about,/volunteer/teach) are requested from client side and ‘site-analytics.service’ will run for Google Analytics (GA) which are existing services.

[Web only] Web frontend changes

1. Responsive UI for all devices:

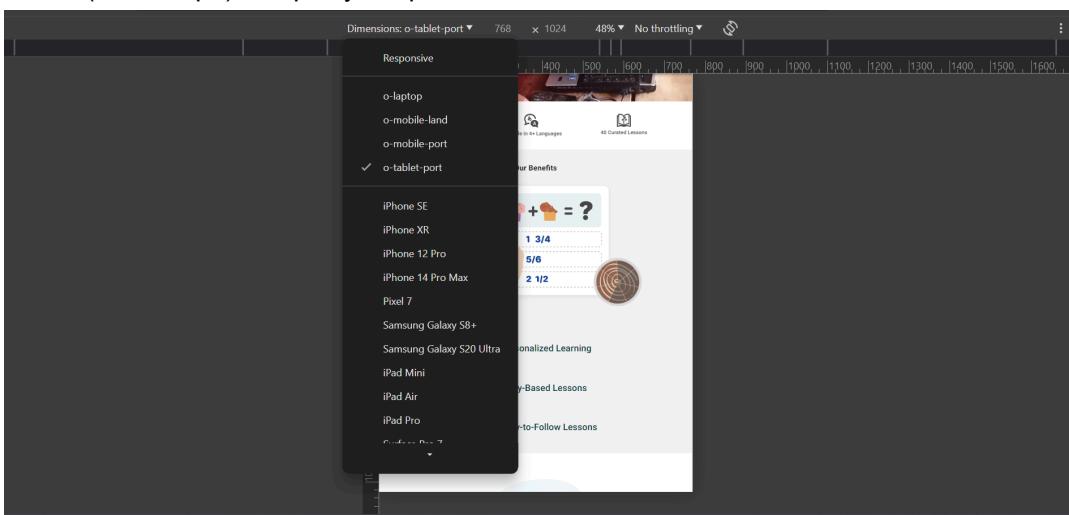
To make the UI fully responsive for all the screen sizes following techniques will be used:

- Relative size units like %, vh (viewport height), vw (viewport width) will be primarily used to define the actual sizes of containers and margins, ensuring responsiveness across various screen sizes. Meanwhile, absolute units will be utilized to set constraints (on the sizes of containers and margins) such as max-width, min-height etc to maintain the layout within specific bounds, complementing the use of relative units. For eg, for a container if we set width as '40vw' we might set min-width as '300px' so that it occupies at least 300px for smaller screens. Refer [here](#).
- Same like above will be done for images also [webp](#) image formats (of size scales 1x,1.5x,2x) will be used for displaying the images as they help in rendering clarity images in different screen sizes and fallback images in png (of size scales 1x,1.5x,2x) will be used for supporting old-browsers. Different scales of images will be used so that the browser automatically uses the required image based on the screen size (check the picture element in this [example](#) you can find in the first 100 lines only). Refer [this](#), [this](#) (just refer to the given sections only in the link). We have to implement these concepts of images in the [How we're improving lives section](#) of the About page.
- Units like rem, em will be used for setting text and content sizes so the text will be self-adjusting according to the screen size. Refer to [this](#).
- Flexbox, grid layouts and media queries (by setting suitable breakpoints) will be used for setting the layouts, (flex-direction row /column etc.). Alignment for different screen views and min,max heights/widths will be set accordingly.
- Traditional CSS will be used for setting all the styles to make it easy to generate RTL CSS files (see 2nd point below) and also because it will be easy for reusability (using classes and ids), unlike bootstrap. For example, if we want to apply 3 styles like 'font-size: 40px; color:black' for some of the headings in the web page, in traditional CSS we would give a common class name for all of them which would have these styles. But if we use bootstrap we have to give them like this for each of the heading,
`<h1 class="display-4 text-dark">Heading 1</h1>
<h2 class="display-4 text-dark">Heading 2</h2>
<h3 class="display-4 text-dark">Heading 3</h3>
<h4 class="display-4 text-dark">Heading 4</h4>`
The problem here is if we want to change the color of text to say green then we have to go and change it in multiple places. But if we use traditional CSS , we need to change it at 1 place in the CSS file.

- Will use vendor prefixes like -webkit(for older chrome,safari), -moz-(mozilla firefox), -ms-(MS edge, internet explorer), -o- (older versions of opera) whenever needed (but it is rarely needed) to ensure compatibility for most browsers and their older-versions. Refer to [this](#) and [this](#).

Testing plan for responsiveness:

- Leveraging the use of Developer Tools in Chrome, Firefox example [video](#)
I will use the 'breakpoints' given by the project designer ([here](#)) and test all the UI changes according to the mocks for each breakpoint like [here](#). Also, I will check if there are any issues such as content overlapping etc. in other screen dimensions (like iPhone SE in chrome, Samsung Galaxy Note 20 in firefox etc) . Also, the UI will be tested in the "in-between" sizes by resizing the page width from big to small to big.
Web: 1280px by 800px
Tablet (Portrait): 768px by 1024px
Mobile (Portrait): 360px by 640px
Mobile (Landscape): 640px by 360px



(Here I have created custom devices for the above 4 screen-dimensions such as o-laptop, o-mobile-portrait etc)

- Feature testing will be conducted, where the changes are deployed to the test server and users would actually test the changes and leave feedback.
- The UI will be tested on mobiles using the steps given in this [wiki](#). Also ,the test recording will also be put in the PR proof of work section. My Phone screen dimensions are : width - 360px, height - 802px

2. RTL(Right-To-Left) layouts Support:

For supporting RTL layouts (for languages like Arabic etc.), existing code patterns in the code base will be used. We will put all the CSS styles in a separate '.css' file and then run the oppia-server in production mode, so that the CSS styles files for RTL layouts will be generated during the webpack compilation with

the help of [RTLCSS](#) library (the WebpackRTLPlugin we use). The directives mentioned in this [doc](#) (as recommended by this developer [note](#) at top of the file) will be appropriately used, for UI compatibility.

Testing plan for RTL support:

- Any RTL language like 'Arabic' will be selected in the Navbar, and then manual testing will be done to ensure everything on the page is aligned properly.

3. Accessibility(a11y) Support:

To make the UI fully accessible for all the users and screen readers, we will use techniques as per [WCAG](#), [Lighthouse](#) which are consistent with the existing codebase.

- For images: We will use the alt attribute (like ``) to provide a text description of the image content. E.g. for the images of lesson creators in the Volunteer page an 'alt' text would be 'The Profile image for NAME'. Eg. for this is shown in the implementation of Lesson creators section [below](#).
- For icons: We will use the aria-label attribute for icons that convey information, such as the chevron icons in the About page CTA section.
- Appropriate role and aria-label attributes will be given to all interactive elements.
- Proper tab-indexes will be given for helping keyboard navigation and focus management. We set tabindex to -1 if that element should not be navigated to directly while tabbing, else we put "0".
Example: `<i class="fas fa-chevron-down" tabindex="0" role="button" aria-label="Expand Donor section .."></i>`
- Most of the buttons will have hovering effects, and in the 'Lesson Creators section' there will be a hovering effect so they will be more focussable.
- The components created with '[ng-bootstrap](#) (scroll till in the end in this link)', '[google chart](#)', '[material-ui](#)' also have built-in a11y features.
- Tooltips will be strategically used to enhance user experience by providing contextual information on interactive elements that are not immediately clear (like in the [Accordion](#) '+' icon in Features section in About Page). Tooltips won't be applied to elements with clear purposes, like the standard left/right arrows in the [Lesson Creators](#) section of parent/teacher page.

Testing plan for a11y:

- Lighthouse test in accessibility (both mobile & Desktop) which is a feature of Chrome Dev Tools will be used (as explained [here](#) or in our [wiki](#)).
- Verifying that the pages get a score of 100% in the default lighthouse tests in a11y:
 - Currently as per the [lighthouserc-accessibility-1.js](#), [lighthouserc-accessibility-2.js](#) the min scores for the pages that will be redesigned in this project are as follows.
 - For the /about suite (About page) - minimum accessibility score of 0.98.
 - For the /volunteer suite (Volunteer page) - minimum accessibility score of 0.9.
 - For the /teach suite (For Parents/Teachers page) - minimum accessibility score of 1
 - So, I will be aiming to get a score of 1 (100%) for all of the above 3 suites.

4. Internationalization(i18n) Support:

For i18n, we will use the same existing practices that are currently used in the codebase.

For all texts which are visible in the UI , a i18n key will be created using the format

I18N_PAGENAME_TEXTCONTENT, e.g. I18N_ABOUT_PAGE_TITLE and the English text will be added to

en.json and its explanation to qqq.json file. Then the key will be used in the required place like this:

```
<h1>{{ 'I18N_ABOUT_PAGE_TITLE' | translate }}</h1>
```

5. New Components Implementation :

1. Barchart component (Impact section):

This component will be implemented using the 'charts.css library'

@Input API / Args for the component:

1. chartId : 'string'. Id of the Chart. Eg. OppiaWebsite, OppiaAndroid
2. rawData : 'DataPoint[]'. An array of data points
3. barsColor: string. Color of the bars
4. annotationTextColor: string. Font Color of the annotation text displayed on the bars
5. labelsColor: string. Color of the labels
6. ticks: ChartTick[] An array of chartTicks. I.e. numbers displayed on the horizontal-axis

These interfaces will be created :

```
interface DataPoint {  
    country: string;  
    userCount: number;  
    annotationText?: string;  
}  
interface ChartTick {  
    value: string;  
    width: string;  
}
```

A div will be created in html like (height , width max-width will be given for this) <div [id] = "chartId"></div> and in the '.ts' file we will normalize the data in ngOnInit and store that in normalizedData[]

Will use the ElementRef wrapper to set sizes of the bars dynamically
in ngAfterViewInit .

For the container holding the barchart, I will give `width:50%` in desktop view and `width:100%` in tablet/mobile view (using media-queries) and I will put `width:100%` for the barChart component.

2. Custom Accordion component:

This will be used for the 'Features' section of the 'About' page (only in desktop view) and the 'Lesson Creation Process' section of the 'Teachers' page (across all screen sizes).

Unlike traditional accordions, when a panel is opened, it occupies the entire space of the component, causing the remaining panels (including panel labels) to collapse, as per the mock's dev [notes](#). Therefore, we will implement a list of buttons, each marked with a '+' icon, to control individual collapsible content divs. This list will be contained within a collapsible div, the state of which is controlled by a '-' (minus) icon in the `Card` div. **Here is a [demo](#)** (for desktop).

Here, a new interface will be created like this:

```
interface AccordionPanel {
  title: string;
  text : string;
  image?: string; //Some of the panels have images below the text
(e.g. "Skill tree", "Skill Table" in the Parents/Teachers page) in them
so this will be optional param for the interface.
  customClassNames: string[]; // Array of custom CSS classes to be
applied to the panel.
}
```

The `customClassNames` will be used to specify the styles like `background-color`, `font-color`, `font-size` of the panel. Eg.'Free-of-Cost' panel has a special background color, font-color. Also the panels in the 'features' and 'lesson creation process' have different `background-color`, `font-color`, `font-size` of the panel (This param is similar to the `customClassNames` param in this [oppia-primary-button-component](#)).

@Input API / Args :

1. `AccordionPanels`: `AccordionPanel[]`. An array of `AccordionPanels`.
2. `AccordionPanelsHaveFixedHeight` : boolean. A variable to determine the `AccordionPanel` height. If true, card height will be set as '100%', else card height will be set as 'fit-content' in CSS.

The second parameter above will be true for the "Features" (Desktop) section and will be false for the "Lesson creation process" section. The `card.customClassName` will be used to apply the styles according to mocks.

```
<div #collapse="ngbCollapse" [(ngbCollapse)]="listIsCollapsed">
  <div *ngFor="let panel of panels; let i = index" >
    <button (click)='expand(i)'[ngClass]="customClassNames">
      <p> {{ panel.title }} </p>
      <i> plus icon </i>
    </button>
  </div>
</div>
<div #collapse="ngbCollapse" [(ngbCollapse)]="ItemIsCollapsed"
[ngClass]= "customClassNames">
  <p> {{ activeItem.title}} </p>
  <button (click)="closePanel()"> <i> minus icon </i> </button>
  <p> {{ activePanel.text }} </p>
  <img *ngIf="activePanel.image" [src]={{ activePanel.image }} />
```

```
</div>
```

Here the `expand(i)` function will set the `i`th item as the `activePanel` and `closePanel()` function will expand the 'List' (which shows all the steps/features) and close the `activePanel`. Here we show an image if the Panel content needs to have an image in it using `ngIf`. Eg. For the 1st and 2nd Panel in the lesson creation process, we will show an image and we won't show any images for the other panels as of now.

For the 'Features' in `tablet, mobile` layouts, please check the 'About' page section in the below point.

3. oppia-secondary-button component :

The existing '[oppia-primary-button](#)' component will be utilized across all these pages for the primary button implementation. At the time of drafting this proposal, the 'oppia-primary-button' already has predefined properties such as `color` and `background-color` properties in the [primary-button.component.css](#) in the selectors `.primary-button`, `.primary-button:focus`, `.primary-button:disabled`

Modifications that will be done:

- A new component called `oppia-button` will be created which has all the properties of `oppia-primary-button` except `color` and `background-color` properties in the current [primary-button.component.css](#) in the selectors `.primary-button`, `.primary-button:focus`, `.primary-button:disabled`
- Then, the `oppia-primary-button` inherits the `oppia-button` and will have only `color` and `background-color` properties in the current [primary-button.component.css](#) in the selectors `.primary-button`, `.primary-button:focus`, `.primary-button:disabled`
- Then a new component called `oppia-secondary-button` will be created which inherits the `oppia-button` and the properties background color, hover colors etc displayed below (according to the [mocks](#)) will be applied to it.



Since we are not changing the UI and API/args/params of `oppia-primary-button`, there is no need to bother about it being used currently in all pages.

If these components are reworked before this project starts they will be used for all the buttons across these pages. Otherwise, this component will be modified within this project to ensure consistency throughout the codebase.

Note: We are **not** creating any new components for the next two items (4) and (5).

4. Donor box modal:

This will be implemented using the existing component [donate-page /donation-box /donation-box-modal.component.html](#).

Modifications that will be done in codebase :

- Move the [donate-page /donation-box](#) folder to the [components](#) folder and update the donate-page import statements, i.e. , for example adding the following statements to the [components/shared-component.module.ts](#)
`import {DonationBoxComponent} from 'pages/donate-page/donation-box/donation-box.component';
import {DonationBoxModalComponent} from 'pages/donate-page/donation-box/donation-box.component';`
- Use the donor box popup modal imported above, in the [about-page.component](#).

5. Custom Carousel :

We will be using the customized version of ngb-carousel imported from the NgbCollapseModule from '@ng-bootstrap/ng-bootstrap' package for some of the section in this project (they will be referring here at their respective explanations below). The indicators of the carousel are customized using CSS selectors `.carousel-indicators li {}` and `.carousel-indicators li.active {}`. The `[showNavigationArrows]` will be set to false and the `[interval]` time will be set to 0 as the input parameters of the carousel component. This ensures that the cards move only when the 'circle' buttons are clicked, as per the [mocks](#). Customizing the ngbCarousel component will help us to build the desired UI faster rather than writing the HTML, CSS, TS code from scratch like in the [donate-page.component.html](#) (Refer [donate-learners-container](#) code in this file, it was built from scratch for achieving the same UI)

6. Other UI elements' implementation(UI elements which aren't explained in above point 5):

Note: All the following elements explained below will be in their respective pages only (for eg. the 'Get Involved section' code will be in [about-page.component](#) only) there won't be any new components for the below elements. All the new components which will be created are explained in the previous section.

About Page: The following code needs to be changed in [about-page.component](#).

Note: This page is undergoing a complete redesign and will not retain any design elements from the previous version. The redesign follows a specific launch plan detailed in the Implementation plan below. For each Pull Request (PR), the code for the sections slated for removal will be deleted from about-page.component. Simultaneously, the code for the new sections, as per the PR plan, will be added to about-page.component.

For example, in PR-1.2 (refer to the Implementation plan below), the code for the '[Our Outcomes](#)' section will be removed from about-page.component first. Then, the code for the '[Oppia Foundation and its products](#), [Timeline](#)' and '[Impact](#)' sections will be added to about-page.component in place of the '[Our Outcomes](#)' section.

- For the 'Features' section in tablet, mobile layouts , we do like this (A small demo for mobile. Expand the screen size to see what happens for tablet screen size; note that multiple panels can be opened at a time as per the Figma prototype).

```
<div class="accordion">
<div class="panel"> <button onClick="toggleItem1()"> Feature 1<i> + </i>
</button>
<div #collapse="ngbCollapse" [(ngbCollapse)]="Item1IsCollapsed">Item1Content
<button>
Similarly other panels using *ngFor
</div>
```

We will wrap the items for accordion div, and will set the panel div to have 100% width for mobile-portrait, 50% width for tablet, mobile-landscape.

- GetInvolved (CTA) section : This section will be implemented using the 'NgbCollapse' module. (A small demo for this.)

Here we can use the 'material-ui tabs' in desktop, tablet views as it makes easy to implement the required UI and interactions given in mocks

Since the alignment in only mobile-portrait is different (check above) , we will use the ngbAccordion Component from @ngbootstrap module as it makes easy to implement the required UI and interactions given in mocks

Volunteer CTA content: all the volunteer roles slides are displayed using a ngb-carousel which will be customized as discussed in the above section.

Donor CTA content:

The donor-box pop-up modal discussed above , along with the oppia-primary-button, flexbox, p,div, h2/h3 tags will be used. Also the same styles (white background, green heading etc.) will be applied for the 3 white boxes using CSS class selectors.

Partners CTA content: general HTML elements such as div, p, img, h2/h3, along with the oppia-primary-button and flexbox layout, will be used to replicate the UI.

- "Our partnerships" and "How we're improving lives" sections : For desktop general divs, imgs etc will be used . But for tablet, mobile-landscape, mobile-portrait views a carousel will be used, which will be customized as discussed in the above section. Only alignment of image, paragraph changes for tablet/mobile views in the carousel.
- Timeline sub-section : The 'sub-timeline' will have a green-border. Incase of desktop and mobile-portrait the border will be left-side of sub-timeline div and flex-direction will be column. For tablet and mobile-landscape, the border will be on the top side of the sub-timeline div and the flex-direction will be "row" as shown in mocks (using media-queries)

```
<div class="timeline">
<div class="sub-timeline">
  <p class="timeline-year">2015</p>
</div>
<p class="timeline-content"> some info </p>
```

```

</div>
<div class="timeline-circle">
  remaining 1 div, 1 circle, 1 div,
</div>

```

Remaining sections in this About page are simple flexbox layouts and general div,img,p etc will be used.

Parents/Teachers page:

For the “Lesson Creators” section, since we have to display more than one slide at a time (4 items in desktop view, 3 items in tablet view, 2 items in mobile view), we can’t use a carousel. Instead, ‘*ngFor’ directive is used for displaying the data, like this

```

<div class="..." *ngFor="let creator of creators">
  <p> {{ creator.name }}</p>
  <img src={xyz} alt="The Profile image for {{creator.name}} " />
    // Dynamic 'alt texts' for the image above
  ... (remaining properties for nationality, profession, LinkedIn profile)
</div>

```

The width of the container, each card, and scroll options will be set appropriately to replicate the UI across all devices. Two left and right chevrons (arrows) will be used, with a function attached to each of them for scrolling the cards, similar to the code in the library page [here](#). The left chevron will trigger the ‘decrement’ function and the right chevron will trigger the ‘increment’ function.

For the testimonials section, ngb-carousel will be used, which will be customized as discussed in the above section. Remaining sections in this page are all simple flexbox layouts and general div,img,p etc will be used.

Modifications that will be done in [teach-page.component](#) :

- The ‘Testimonials’ and ‘Oppia-products’ sections will be modified according to the provided mock-ups.
- Since all remaining sections are new, they will be added in place of the old code.
- The ‘Lesson Creators’ section will be implemented as explained above.
- For the ‘Lesson Creation Process’ section, a ‘Custom Accordion component’ will be used, as detailed in the ‘New Components’ section.

For the Outcomes section the same implementation used currently in the About page will be used. A descriptive alt text will be given for the image to assist the screen-readers - ‘Bar graph comparing pre-test and post-test scores of students in a Math class using a control group and Oppia. The control group scored 44% in the pre-test and 41% in the post-test, while Oppia users scored 38% in the pre-test and improved to 85% in the post-test’

Volunteer page: In the new ‘Meet our volunteers’ section, for the tab labels: border, hover effect, active tab effect will be added using selectors like ‘.mat-tab-label’, ‘.mat-tab-label:hover’, ‘.mat-tab-label.mat-tab-label-active’. The preferred skills will be added for each tab as unordered lists using the ‘*ngFor’.

Like this:

```
<h5> {{ heading }} </h5>
<ul class="...">
  <li class="..." *ngFor="let item of items">{{ item }}</li>
</ul>
```

Building partnerships and being a community advocate

- Communication
- Critical Thinking
- Collaboration
- Time Management

The built-in pagination feature of the MaterialUI '[tabs](#)' component will be customized to achieve the desired UI in mocks. For remaining old sections, only minor changes will be done according to mocks like changing the button position etc.

Modifications that will be done in [volunteer-page.component](#) :

The 'Meet our Volunteers' section will undergo modifications as previously explained. Additionally, the button located at the bottom of the page will be adjusted according to the mock-ups. Specifically, its size will be altered, and its text will be updated to 'Volunteer with Oppia'.

7. Sample Implementation for Collecting Metrics:

For e.g., for the event "user clicks on the 'Learn More' button in Volunteer CTA section in About page":

- I will create a new function in [site-analytics.service.ts](#) like this to send the event to GA

```
registerClickVolunteerLearnMoreButtonEvent(): void {
  this._sendEventToGoogleAnalytics(
    'volunteer_learn_more_button_click'
  );
}
```

- Then in [about-page.component.ts](#) I will create a function which calls the above function (similar to the [onClickVisitClassroomButton](#) function in same about-page.component.ts)

```
onClickVolunteerLearnMoreButton(): void {
  this.siteAnalyticsService.registerClickVolunteerLearnMoreButtonEvent();
}
```

- Then, in [about-page.component.html](#), when the button element is clicked it will call the above function:

```

<oppia-outline-primary-button
    (onClickOutlinePrimaryButton)="onClickVolunteerLearnMoreButton()"
    buttonHref="/volunteer"
    buttonText="{{ 'I18N_LEARN_MORE_BUTTON' | translate }}">
</oppia-outline-primary-button>

```

Metrics Plan

First Time within in a week/month event sample code:

We can create 2 functions in localstorage.service.ts like this.

```

getLastViewTime(firstTimeViewKey: string): string | null {
  if (this.isStorageAvailable()) {
    return (this.storage as Storage).getItem(firstTimeViewKey);
  }
  return null;
}

setLastViewTime(firstTimeViewKey: string): void {
  if (this.isStorageAvailable()) {
    (this.storage as Storage).setItem(
      firstTimeViewKey,
      String(Date.now())
    );
  }
}

```

We can bring the `oneWeekInMilliseconds = 7 * 24 * 60 * 60 * 1000;` and `oneMonthInMilliseconds = 30 * 24 * 60 * 60 * 1000;` from the constants file, and use them like this:

```

registerFirstTimeAboutPageViewEvent(): void {
  const firstTimeViewKey = 'firstTimeAboutPageView';
  const lastViewTime = this.localStorageService.getLastViewTime(firstTimeViewKey);
  const oneWeekInMilliseconds = constants.ONE_WEEK_IN_MILLISECONDS;
  const oneMonthInMilliseconds = constants.ONE_MONTH_IN_MILLISECONDS;

  if (!lastViewTime || Date.now() - Number(lastViewTime) > oneWeekInMilliseconds) {
    this._sendEventToGoogleAnalytics('first_time_about_page_view_in_week');
    if (Date.now() - Number(lastViewTime) > oneMonthInMilliseconds) {
      this._sendEventToGoogleAnalytics('first_time_about_page_view_in_month');
    }
    this.localStorageService.setLastViewTime(firstTimeViewKey);
  }
}

```

Here, we use the localStorage service to save the last view time of the page in interest. If this time is greater than one week, we emit a ‘week’ event to Google Analytics (GA). If it is greater than one month, we emit a ‘month’ event to GA. After emitting the event, we update the value in local storage to the current time. If the key was not set earlier, which means the user is viewing that page for the first time, then the key’s value will be set to the current time.

S No	Event	Event parameters	Do we already record the event + parameters?
1	The user clicks on the CTA buttons, found before the newsletter subscription. These are 'Apply to volunteer', 'Donate', and 'Partner with us' in 'About page'		Will register the events <code>registerClickVolunteerCTAButtonEvent</code> , <code>registerClickDonorCTAButtonEvent</code> , <code>registerClickPartnerCTAButtonEvent</code> in site analytics service, in about page component similar to sample above and implement in about-page.component
2	The user clicks on the first CTA buttons, found on the upper section. They are 'Explore lesson' and 'Download the Android app' in 'About page'		Will register the events <code>registerClickAboutPageExploreLessonsButtonEvent</code> , <code>registerClickAboutPageAndroidButtonEvent</code> in site-analytics.service.ts and implement in about-page.component similar to sample above
3	The user clicks on 'Volunteer' from the header navigation/footer	N/A	Will register the events <code>registerClickVolunteerButtonFromNavbarEvent</code> , <code>registerClickVolunteerButtonFromFooterEvent</code> , <code>registerClickParentTeacherButtonFromNavbarEvent</code> , <code>registerClickParentTeacherButtonFromFooterEvent</code> in site analytics service, implement in top-navigation-bar.component.ts, oppia-footer.component.ts, similar to sample above
4	The user clicks on 'For parents/Teachers' from the header/ footer.		Will register the event <code>registerClickLearnMoreVolunteerButtonEvent</code> , <code>registerClickLearnMorePartnerButtonEvent</code> in site-analytics.service.ts and implement in about-page.component similar to sample above
5	The user clicks on the 'learn more' button from the About page.		Will register the events <code>registerClickTeachPageExploreLessonsButtonEvent</code> , <code>registerClickTeachPageAndroidButtonEvent</code>

	bottom of the Parents/Teachers page.		<code>nEvent</code> in site-analytics.service.ts and implement in teach-page.component similar to sample above
7	The user clicks on the Apply button in the Volunteer page.	- User's analytics ID(to determine whether the visit is unique)	Will register the events <code>registerClickVolunteerPageCTAButtonEvent</code> <code>nEvent</code> in site-analytics.service.ts and implement in volunteer-page.component similar to sample above User Analytics Id is sent to GA automatically if the user has already signed in for the page visits (refer user-id-view docs)
8	The user clicks on 'About' from the header/footer.	User's analytics ID (to determine whether the visit is unique)	Will register the events <code>registerClickAboutButtonFromNavbarEvent</code> , <code>registerClickAboutButtonFromFooterEvent</code> in site analytics service, implement in top-navigation-bar.component.ts, oppia-footer.component.ts, similar to sample above User Analytics Id is sent to GA automatically if the user has already signed in for the page visits (refer user-id-view docs)
9	The About page is viewed in a user's browser.	User's analytics ID (to determine whether the visit is unique)	
10	The users visit the Oppia site starting from the About page.	N/A	Yes, in google-analytics.initializer.ts . Page visits and page-views are automatically taken by Google Analytics when initialized, according to this GA docs and page-view docs. Also the User Analytics Id is sent to GA automatically if the user has already signed in for the page visits (refer user-id-view docs). For the difference between 'page view' VS 'page visit', refer to this link .
11	The users visit the Oppia site starting from the volunteer page.		
12	The users visit the Oppia site starting from the 'For parents/Teachers' page.		
13	The 'Volunteer' page is viewed in user's browser		
14	The 'For parents/Teachers' page is viewed in the user's browser.		

15	A user leaves after browsing the pages they visited.	N/A	Page leave event docs : https://support.google.com/analytics/answer/1080047?hl=en
16	A user leaves the About page.		
17	A user leaves the volunteer page.		
18	A user leaves the 'For parents/Teachers' page		
19	A user viewed the About page for the first time within a week/month.	N/A	The event names will be given as <code>registerFirstTimeAboutPageViewEvent</code> , <code>registerFirstTimeVolunteerPageViewEvent</code> , <code>registerFirstTimeParentsTeachersPageViewEvent</code> . This will be implemented similar to the sample given above
20	A user viewed the Volunteer page for the first time within a week/month.		
21	A user viewed the 'For parents/Teachers' page for the first time within a week/month.		

Testing Plan

Acceptance tests for core user flows

Note : I have given custom numbers in the 'Test name' column like (V1,D1,P1,T1 etc) to refer back to them in the Milestone Table. Also the verification of navigating to external links will be done similar to the 'click61MillionChildrenLinkInAboutFoundation' function using the `clickButtonToNavigateToNewPage` function in [logged-in-users-utils.ts](#) .

#	Test name	Initial setup steps	Steps	Expectations
1	Volunteer can: V1)View the 'Volunteer expectations' and 'Preferred volunteer skills' in Volunteer Page V2) Open the	Sign up a user 'volunteer1' with email 'volunteer1@example.com' and login with that account	Go to About page and scroll down the page to the 'Volunteer' section	The 'Development' text must be visible on the page.
			Click on ' Volunteer with Oppia' button	This form URL must be the URL of the current tab.
			Again go to About page (by clicking on the browser's back button - the left	The current URL must be 'http://localhost:8181/vol

	volunteer form in Volunteer Page V3) Open the volunteer form in About Page V4) Go to the Volunteer page from About Page		arrow at top-left corner) and click on 'Learn More' button	unteer' and 'Oppia > Volunteer' must be visible in the Navbar
			scroll down the page to see the 'Volunteer expectations' and 'Preferred volunteer skills' section	'Volunteer expectations' and 'Preferred volunteer skills' section(text) must be visible on the page.
			Click on 'Volunteer with Oppia' button	The current URL must be this form URL in a new tab.
2	Donor can: D1) Donate through the donorbox in About Page	Sign up a user 'donor1' with email 'donor1@example.com' and login with that account	Go to About page and scroll down the page to the 'Volunteer' section and click on Donor tab's down arrow (chevron) button	The 'Donate' button in the donor CTA section must be visible on the page.
			Click on the 'Donate' button	A Donorbox modal must be visible on the page
3	Partner can: P1) Open the partnerships form in About Page P2) Go to the partnerships page from About Page	Sign up a user 'partner1' with email 'partner1@example.com' and login with that account	Go to About page and scroll down the page to the 'Volunteer' section and click on Partner tab's down arrow (chevron) button	The 'Our partners' text must be visible on the page.
			Click on the 'Partner with us' button .	This form URL must be the URL of the current tab.
			Now change the site language in the navbar to (say) portuguese. Click on the 'Partner with us' button	The Google-translated version of this form URL must be the URL of the current tab.
			Again go to About page (by clicking on the browser's back button - the left arrow at top-left corner) and click on 'Learn More' button	'http://localhost:8181/partnerships' must be the URL of the current tab and 'Oppia > Partnerships' must be visible in the Navbar
4	Parent/Teacher can: T1)View the lesson creators team and their LinkedIn profiles T2)View the lesson creation	Sign up a user 'teacher1' with email 'teacher1@example.com' and login with that account	Go to 'For Parents and Teachers' page (/teach) and scroll to 'Lesson Creators' section	'Lesson Creators' section (text) and 'LinkedIn Profile' button must be visible on the page.
			Click on 2nd 'LinkedIn' button	The LinkedIn profile URL of the 2nd creator (Rafiat Sulaimon for now) must be the URL of the current

	process T3)Open the 'guide' for parent/teacher T4)Open the blog tutorial of an Oppia-teacher			tab.
			Again go to "For Parents and Teachers' page" (by clicking on the browser's back button - the left arrow at top-left corner of the browser) and scroll to 'The Lesson Creation process' section	'The Lesson Creation process' section (text) must be visible on the page.
			Click on the 'Skill Tree' button	An image illustrating 'skill-tree' must be visible on the page.
			Click on the 'Check out our guide' button	This pdf link must be the URL of the current tab.
			Again go to For Parents and Teachers' page (by clicking on the browser's back button - the left arrow at top-left corner of the browser) and click on the 'Check out our blog' button	' http://localhost:8181/blog ' must be the URL of the current tab. and 'Oppia I Blog' must be visible in the Navbar
5	Donor/Partner/V olunteer can: U1) View the 'Impact Report' in Navbar 'About' dropdown (check click-all-buttons-on-navbar.spec.ts)	Sign up a user 'donor1' with email 'donor1@example.com' and login with that account	Go to the splash page.	' http://localhost:8181/ ' (splash page) must be the URL of the current tab.
			Click 'Impact Report' button in Navbar	Impact report doc link must be the URL of the current tab.

Note: The changes will also be tested on the Oppia test server before the release.

Implementation Plan

Milestone Table (include both PRs and other actions that need to be taken prior to launch)

Milestone 1

(Referred from the following suggested objectives in the Project Idea in [wiki](#)).

Milestone 1: Update the acceptance tests to cover as much as possible of the "ideal flows" for volunteers, donors, partners, and parents/teachers (see the "Product Flows and Requirements for Specific User Flows" section). This might involve modifying some of the existing tests to make the user type more specific. (Then, as you subsequently redesign the pages, update these tests as needed.)

Redesign the About page according to the given mocks, and ensure that it is fully-responsive for all device sizes, reaches a Lighthouse score of 100 for accessibility, and fully internationalizable.

Update and simplify the navbar according to the given mocks.

Key objective for this milestone:

1. Users will be able to see the (with responsiveness, i18n, RTL, a11y support)
 - new About Page in the website
 - "Impact Report" in Navbar instead of the 'About Foundation' page, 'Blog' page
2. Acceptance tests for all *possible* ideal user-flows of volunteers, donors, partners and parents/teachers are updated/written, and reflect the website state after the above 2 changes.

Note : As the 'About' page needs to be completely revamped, keeping in mind the components' complexity and large code changes, tests need to be written. To prevent unexpected surprises for users, the revamp will be made in 4 PRs , the sections will be added on priority basis (based on the impact they create) – see the PRD launch plan for details ([Other Considerations section link](#)).

You can refer to the Reference pictures provided in the bottom of the file for the sections in old and new 'About page'.

No.	Description of PR / action	Prereq PR numbers	Target date for PR creation	Target date for PR to be merged
1.1	Writing the Acceptance tests for the ideal User flows of volunteers, donors, partners, and parents/teachers <i>possible (as per the website state when starting the project)</i> .	-	May 29	June 1
1.2	In the About page, Sections Added : ' Oppia Foundation ' , ' Impact ' Sections removed : ' Our Outcomes ' Ensure to get a score of '1.0' for the '/about' suite in lighthouse in a11y after these changes.	-	June 4	June 7
1.3	In the About page, Sections Added : ' CTA ' Sections removed : ' Easily Create Lessons ' Writing unit tests for the same. Updating acceptance tests for volunteers (V3), donors (D1), partners(P1). Ensure to get a score of '1.0' for the '/about' suite in lighthouse in a11y after these changes.	1.1	June 12	June 16
1.4	In the About page, Sections Added : ' Features, More On Oppia '	-	June 16	June 19

	Sections removed : ' Our Features ', ' Learn from Oppia's Curated Lessons ', ' Explore Lessons Made by the Community ' Writing unit tests for the same. Ensure to get a score of '1.0' for the '/about' suite in lighthouse in a11y after these changes.			
1.5	Removing everything about the 'About Foundation' page and modifying the Navbar. Writing the View the 'Impact Report' in Navbar acceptance test (U1) and removing the acceptance tests for 'Blog', 'About Foundation' pages buttons in click-all-buttons-on-navbar.spec.ts	1.3	June 19	June 21
1.6	In the About page, Sections Added : ' How we're improving lives ' , ' Hero ' Sections removed : ' Hero ' Writing unit tests for the same. Ensure to get a score of '1.0' for the '/about' suite in lighthouse in a11y after these changes.	1.2,1.4	June 22	June 24
Product demo for milestone 1		Up to 1.6	June 25	
1.7	Bug fixes for milestone 1 (if required)	Up to 1.6	June 28	July 2

Milestone 2

(Referred from the following suggested objectives in the Project Idea in [wiki](#)).

Milestone 2: Redesign the "Volunteering" and "For Parents/Teachers" pages according to the given mocks, and ensure that they are fully-responsive for all device sizes, reach a Lighthouse score of 100 for accessibility, and fully internationalizable. Add the necessary metrics events to these pages (see the "Automatically-collected metrics" section).

Key objective for this milestone:

1. Users will be able to see the following (with responsiveness, i18n, RTL, a11y support):
 - new Volunteer Page in the website
 - new Parent/Teacher Page in the website
2. Oppia is able to collect metrics as per the above Metrics plan.

3. Acceptance tests for all *possible* ideal user-flows of volunteers and parents/teachers are updated/written, as per the website state after the above 2 redesigns.

No.	Description of PR / action	Prereq PR numbers	Target date for PR creation	Target date for PR to be merged
2.1	Redesign the Volunteer Page as per the mocks. Write Unit tests for the same. Update acceptance tests for Volunteers (V1 , V2) Ensure to get a score of '1.0' for the '/volunteer' suite in lighthouse in a11y after these changes.	-	July 9	July 12
2.2	Redesign the Parent/teacher Page as per the mocks. Writing Unit tests for the same. Updating acceptance tests for parents/teachers and writing these 4 acceptance tests for parent/teacher. Ensure to get a score of '1.0' for the '/teach' suite in lighthouse in a11y after these changes.	-	July 18	July 21
2.3	Add the metrics as per the above Metrics plan and write unit tests for them.	Up to 2.2	July 22	July 24
Product demo for milestone 2		2.1,2.2,2.3	July 25	
2.4	Bug fixes for milestone 2 (if required)	2.1,2.2,2.3	July 27	July 29

Unit Tests for the PRs in Milestone 1: (These unit tests are examples, more unit tests in the respective PR will be written after the final implementation of the UI in that PR)

PR No.	Tests	Description
1.3	'CTA section should toggle the tabs correctly'	Test for checking if the <code>toggle()</code> function is correctly setting <code>activeTab</code>
	'CTA section should set the chevron (arrow) symbol correctly'	Test for checking if the correct <code>chevron</code> icon is being set when the <code>activeTab</code> is changed
1.4	'Custom Accordion component should expand the item in the list correctly'	Test for checking if the <code>expand(i)</code> function is correctly setting a given item <code>i</code> as an <code>activeItem</code> and then setting the full list div to collapsed state.
	'Custom Accordion'	Test if the full list will be in non-collapsed state when an item is

	component should show the full list when an item is closed'	closed.
--	---	---------

Note : The UI will be tested at the given breakpoints, in the "in-between" sizes, since desktop viewports can be any size. All PRs will include videos which gradually resize the page width from big to small to big. The things mentioned [here](#) will also be tested.

Unit Tests for the PRs in Milestone 2 : (These unit tests are examples, more unit tests in the respective PR will be written after the final implementation of the UI in that PR)

PR No.	Tests	Description
2.2	'Lesson creators section should initialize the creator cards'	Test for checking if the cards are loaded and visible when page loads.
	'Lesson creators section should increment and decrement cards'	Test for checking if the increment and decrement function are correctly displaying the creator cards (these functions are triggered when the arrow buttons are clicked)
2.3	Tests for the site analytics	Writing tests for all the newly registered functions as per metrics plan, like test 'should register correct event on calling onClickVisitClassroomButton' in this about-page.component.spec.ts

Future Work

- User-research should take place for redesigning the Blog Page and choosing a new name for the blog page and implementing that after the user research . (Referred from the [non-goals section](#) in the PRD)
- Update the donate-learners-container code in this [donate-page.component.html](#) file, to use the new carousel implementation followed in this project (tracking [issue](#)).

APPENDIX / REFERENCES:

Sections in the current About Page in the same order (on the testserver):

1. Hero Section

Get Started with Oppia

Oppia provides a novel and engaging approach to online learning that is specially designed to meet the unique needs of under-resourced learners around the world.

[Browse our Lessons](#)

[Access the Android app](#)



2. Our Features Section

Our Features

Built by educators, tutors, and learners from around the globe, we've worked hard to ensure this platform and the lessons we create are engaging, effective and widely accessible.



Audio Subtitles



Story-based Lessons



Mobile-friendly Navigation



Low Bandwidth Required



Translation to Local Dialects

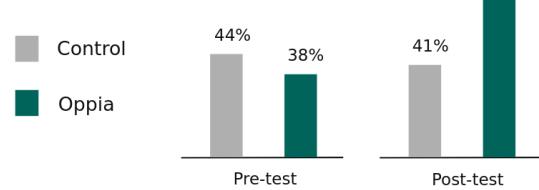
3. Our Outcomes Section

Our Outcomes

We strive for effectiveness and excellence. That's why we continuously conduct user studies and randomized trials to ensure our lessons live up to our high standards.

Learning Fractions with Oppia

RCT Outcomes



These statistics are for topics that were encountered by all the students in the study.

4. Learn from Oppia's Curated lessons

Learn from Oppia's Curated Lessons

In the Classroom, you can find a set of lessons that the Oppia team has designed and tested to make sure they're effective and fun for all learners. All of the lessons have been reviewed by teachers and experts, so you can feel assured that your students are getting an effective education while learning at their own pace.

[Visit classroom](#)

Begin Fractions:

What Is a Fraction?

The Meaning of "Equal Parts"

Fractions of a Group

Recognizing Fractions (Recap)

Click here to start!

Hover over an icon to preview an exploration.

5. Explore Lessons Made by the Community

Explore Lessons Made by the Community

Educators and community members around the world use Oppia's lesson creation platform as a way to create and share lessons. You can find over 20,000 lessons for 17 different subjects in our Exploration library, and maybe you'll be inspired to create your own!

[Browse library](#)

Social Science

 Accounting, Debits and Credits <small>Understand what accounting measures, and how accounts are presented</small> <small>4.1 ⚡ 2.1K 05/08/18</small>	 Ancient India <small>Play through a short quiz on the geography of India.</small> <small>4.8 ⚡ 751 06/05/15</small>	 Government Corruption in Afghanistan <small>Learn about the corruption going on in Afghanistan.</small> <small>5.0 ⚡ 171 01/15/19</small>	 US Political History <small>Learn the names of US presidents.</small> <small>3.6 ⚡ 1.0K 02/07/</small>
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ABOUT OPPIA

About

TEACH/LEARN

Get Started

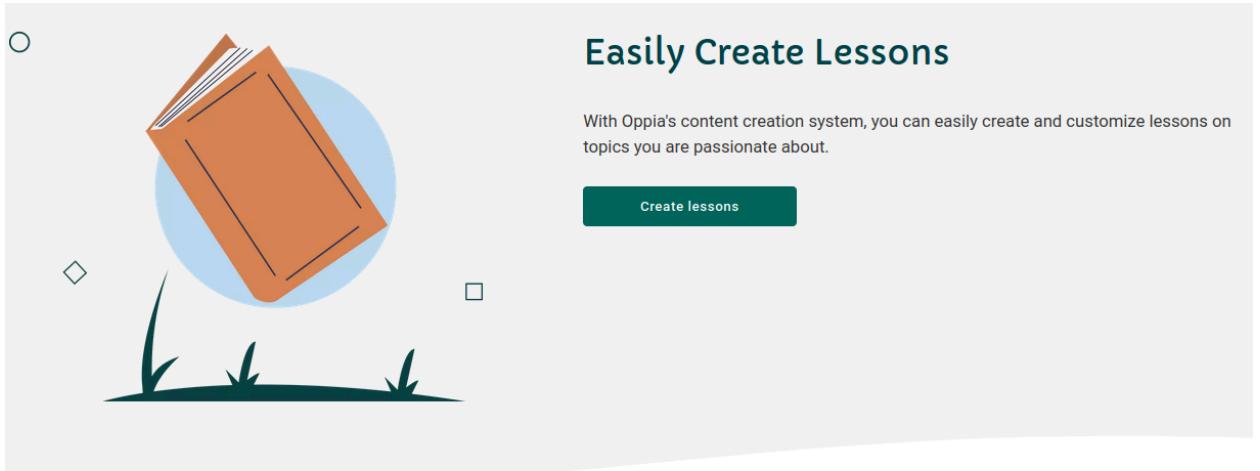
CONTRIBUTE

Get Involved

VIEW OPPIA IN:

English ▾

6. Easily Create Lessons



Easily Create Lessons

With Oppia's content creation system, you can easily create and customize lessons on topics you are passionate about.

[Create lessons](#)

Get Started with Curated Tips

[Explore lessons](#)

Sections in the new About Page in the same order:

1. Hero section



2. Oppia foundation section - mocks

Timeline

2015
Started as a team of 15 with a goal of providing access to free education for all.

2023
A mission-driven team of **over 200 volunteers, educators and donors** maintaining a **70+ Oppia lessons**, available in different languages.

2025 and onwards
Continue to strengthen our partnerships and spread awareness of Oppia, allowing underserved communities to benefit worldwide.

The Oppia foundation and its products

The Oppia Foundation is a 501(c)(3) nonprofit focused on providing quality education to those who lack access to it. We work towards this through the creation of free, engaging, and effective lessons built on our online learning platform, Oppia.

Our classrooms are built from several topics that are built on a specific subjects. These topics have different chapters offering step by step learning. Within the each topics, revision cards and practice questions are provided.

Mission
Empower learners across the globe by providing access to high-quality, engaging education.

Vision
A world where access to high-quality education is not a privilege, but a universal human right.

3. Features , More on Oppia section

Features

- Accessible technology +
- Content relevance +
- Localization-friendly +
- Free-of-cost** +

More on the Oppia platform

Our virtual platform is accessible through the web and our Android app, both of which have low bandwidth requirements.

Students aged 7-14 can learn primary-school level mathematics with minimal support. Oppia lessons are specially designed to reach a broad audience, and are scaled to serve multiple schools, learners, and educational institutions simultaneously.

[Explore lessons](#) [Download the android app](#)

4. Our partnerships and How, we're improving lives section

Our partnerships and how we're improving lives

Oppia works with several partners worldwide to deliver our lesson material to students in regions with limited internet access. Here are a few of them:

Partners with on-the-ground tutors

Valued partner: **Centre for Youth Studies**



Centre for Youth Studies recommends our lessons to schools/households in their communities so that students can use them at home, potentially with parental support.

Partners providing after-school activities

Valued partner: **Special Youth Foundation**



Special Youth Foundation provides our Android app and Web lessons as 'study activity' that students can do in groups after school.

Partners with some devices but no computer labs

Valued partner: **Destiny Trust**



Destiny Trust provides learning opportunities for homeless children in shelters, in some cases utilizing classroom projectors to enhance the experience.

Embedded Learning in NGO Platforms

Globally recognized NGOs like **UNICEF**



Oppia Foundation provides UNICEF with Oppia lessons as an embedded activity in their learning passport application, so that it can reach the audiences they serve in Iraq and elsewhere.

5. Impact section

The Oppia impact

Since we first launched in 2015, Oppia's number of users has expanded substantially. We're proud to announce the following milestones as of 2024.

10,500 +

Active users

2 million +

Total website visitors

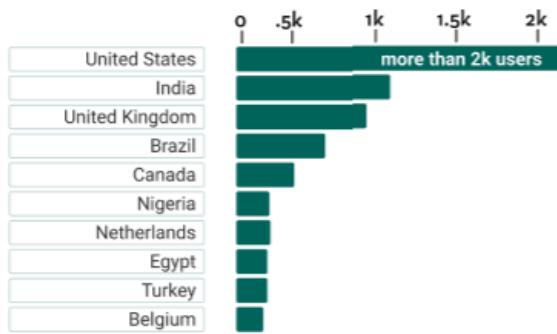
100k +

App downloads

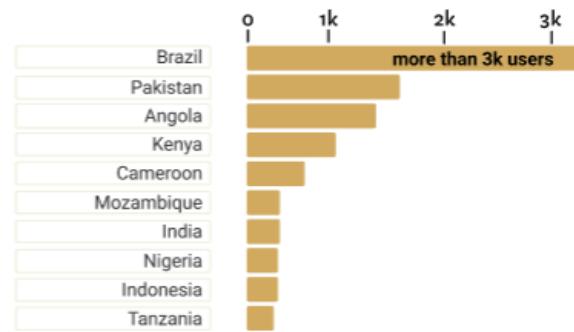
70+

Lessons available for free

Top 10 countries using the **Oppia website**



Top 10 countries using the **Oppia Android app**



See our annual highlights and reflections

[View report](#)

6. CTA (Get Involved) section

Get involved

Our volunteers, partners, and donors are the backbone of Oppia.

[Read stories from our community →](#)

You can become a part of our mission in the following ways:

Donate **Volunteer** Partner

This is a community project and all volunteers are welcome!

 Growth

Growth team helps us spread the word about Oppia and empower learners. Responsibilities include:

- Developing our marketing strategy
- Being a community advocate
- Building partnerships

 Development

This team simplifies our platform and makes sure it's easy to use. Responsibilities include:

- Developing new features
- Improving the Oppia platform
- Keeping Oppia running

 Art and Design

Illustrations help learners visualize concepts. Responsibilities include:

- Defining design initiatives (UX/UI)
- Producing graphics

Volunteer with Oppia Learn more

Donorbox references:

It will be used in this 'donate' section.

Donate Volunteer Partner



Oppia's mission is to provide a learning platform that meets the unique needs for under resourced communities.

Join our mission to provide global access to quality education. Every contribution makes a difference. Donate now and help us empower learners worldwide.

Your \$10
could provide the funds needed to educate 25 children on our platform.

Your \$25
could help educate 20 children through a partner organization for a day.

Your \$100
could buy a phone for a child in Nigeria, helping them access education without the need for a high-speed Internet connection.

 [Donate](#)

1) Inline Pop-Up Button (when you click it, a donation modal pops up)

Inline Pop-up Donate Button

The Inline Donate Button can be added anywhere inside your webpage, the same as any other button.

Preview by Clicking This Inline Donate Button

 Donate

Install Inline Donate Button

Copy-paste the embed code anywhere **into your website's <body> tag**.

i Important! If you modify a button, you must re-upload the embed code. However, if you only modify the Donation Form, it will be automatically updated. If you don't see your changes, clear your browser's cache to view them.

```
<script type="text/javascript" defer src="https://donorbox.org/install-popup-button.js" id="donorbox-popup-button-installer"> </script><a class="dbox-donation-button" id="preview_inline_popup_button" href="https://donorbox.org/oppia-annual-fundraising-campaign-2024?default_interval=m" style="background: rgb(0, 100, 92); color: rgb(255, 255, 255); text-decoration: none; font-family: Verdana, sans-serif; display: flex; font-size: 16px; padding: 8px 24px; border-radius: 5px; gap: 8px; width: fit-content; line-height: 24px;" data-reminder-widget-enabled="true"><span class="cta-label" style="font-family: inherit; font-size: inherit;">Donate</span></a>
```

[Copy Code to Clipboard](#)

X

Oppia Annual Fundraising 2024

Choose amount
🔒 ● ○ ○ →

Join us in ensuring everyone has access to high quality, engaging education.

One-time
♥ Monthly
Quarterly

You can log in to edit your recurring gift any time ⓘ

▼
US Dollars (USD)

\$ 10

\$ 25

\$ 50

\$ 100

\$ 200

\$ 500

\$ Custom Amount

Next →

[Powered by Donorbox](#)

The Oppia Foundation is a 501(c)(3) charitable organization
 (EIN 81-1740068). Contributions are tax-deductible for income,
 gift, and estate taxes.

\$151.08
7
Gifts
\$50,000
Goal

Code specifically within the <head> or <body> tags of those pages.

However, if you only modify the Donation Form, it will be cached to view them.

2) Instructions for using our own customized link/button

Customize the Link or Button

Follow these steps if you want to use your own link or button:

1. Add a link with a `href="https://donorbox.org/oppia-annual-fundraising-campaign-2024"` and one of the class names should be `custom-dbox-popup`.

Example:

```
<a class="custom-dbox-popup" href="https://donorbox.org/oppia-annual-fundraising-"
```

You can also have a button image inside the link tag.

Example:

```
<a class="custom-dbox-popup" href="https://donorbox.org/oppia-annual-fundraising-"
    
</a>
```

2. Add the below two lines of code anywhere in the page, preferably above the closing `</head>` tag.

```
<script type="text/javascript" defer src="https://donorbox.org/install-popup-but"
<script> window.DonorBox = { widgetLinkClassName: 'custom-dbox-popup' } </script>
```

Oppia Annual Fundraising 2024

Embedded Donation Form Pop-up Donation Form **Donate Button** Fundraising/Crowdfunding Page Goal Meter Donor Wall

Install a Donate Button That Links to Your Donation Page

Install a donate button that links to your Donation Page.

Preview

Default Recurring Interval: Monthly

Pre-fill default donation amount \$30

Size: Medium

Donate Button Color: #00645c

Donate Button Text: [New](#)

Hide Donate Button Icon

Sticky Button Position [New](#)

Make the button stick to the side of the screen

CSS Button

To install this button, copy and paste the code in your web page's html

```
<a class="dbox-donation-page-button" href="https://donorbox.org/oppia-annual-fundraising-campaign-2024?default_interval=m" style="background: rgb(0, 100, 92); color: rgb(255, 255, 255); text-decoration: none; font-family: Verdana, sans-serif; display: flex; font-size: 16px; padding: 8px 24px; border-radius: 5px; gap: 8px; width: fit-content; line-height: 24px;">Donate</a>
```

PNG Image Buttons

Add a PNG donate button to your email campaigns or GitHub pages. [Learn more](#)

```
<a target="_blank" href="https://donorbox.org/oppia-annual-fundraising-campaign-2024?default_interval=m"></a>
```

3) Instructions for putting a “sticky” button on the left of the page

The screenshot shows a software interface with a sidebar menu on the left and a main configuration page on the right.

Sidebar Menu (Left):

- Campaigns
- Events
- Memberships
- Live Campaigns
- Manage
- Donations
- Recurring Plans
- Supporters** (highlighted in green)
- Engage
- Reports
- Moments (1)
- Receipts
- Account
- Integrations & Add-ons

Main Page (Right):

Sticky Pop-up Donate Button New

Increase engagement and reduce friction by anchoring a Sticky Donate Button to the side of every page on your website.

Make the button appear on the following side of the screen

Left

Preview Sticky Donate Button

A clickable button will appear on the left or right-hand side of this screen.

Preview Sticky Donate Button

Install Sticky Donate Button

All Website Pages

Simply copy-paste the embed code into your website's repeating `<head>` tag to display the sticky button on all pages.

Selected Web Pages

If you prefer the sticky button to appear only on selected pages, add the embed code specifically within the `<head>` or `<body>` tags of those pages.

i Important! If you modify a button, you must re-upload the embed code. However, if you only modify the Donation Form, it will be automatically updated. If you don't see your changes, clear your browser's cache to view them.