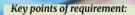
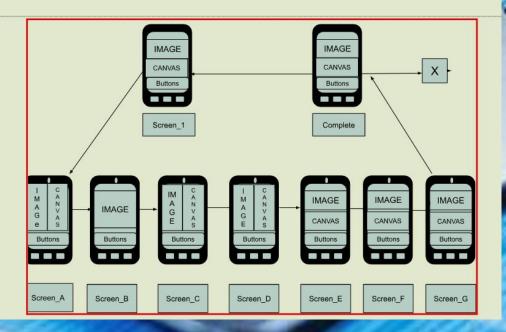
Introduction:

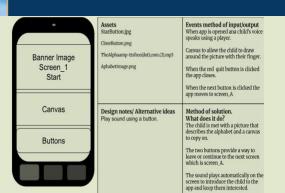
I have been given the go ahead to design an interactive prototype for an alphabet app that will help children 3-7 years learn the alphabet. The app created will have the letters of the alphabet, start screen and completion screen. Age appropriate interest to keep the children interested and engaged is a key requirement of this development. Shapes and sounds are to be used to help the children recognise the letters, and not be grades, or achievements for this app, as the motivation is to learn the alphabet, have fun and stay motivated is the goal. Sound and images will be added into the app to spark interest and motivate learning.

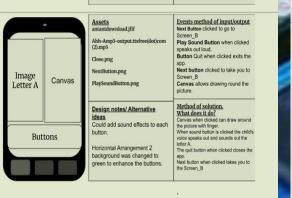
The start screen when clicked will sound the letter out loud, canvas is added so the child can draw around the letter with their finger and the app has a next button that takes them to the next page until the complete page which upon initialising sounds out automatically the alphabet and an option to sound out play button, where they will be given an option to leave or start again. All of these have been seen in various tables and diagrams that were created for the app prototype.



- Interactive alphabet app for ages 3-7 years.
- · Learn the shapes and sounds of the letters.
- · Keep the child motivated and engaged in learning.
- No reward or achievements need to be included for this app.

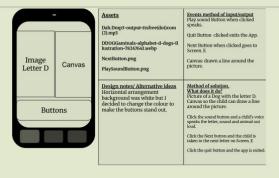




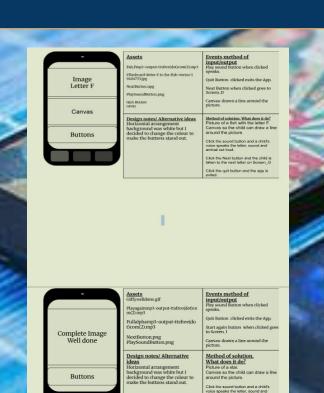




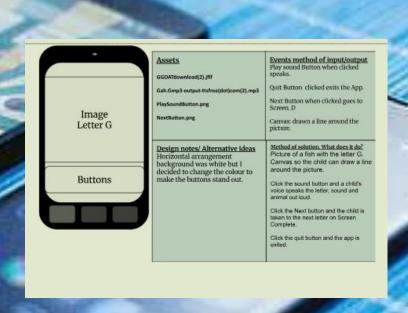








Click the start again button and the child is taken to the next letter on Screen_1 Click the quit button and the app is





At first the app layout was Horizontal 1 and 2, I chose to add a 3rd for the purpose of housing the canvas as when I tried to add the canvas to the drawing, I found that only four of the eight canvas screens worked well for the app. I chose this also to show the child an obvious place to draw and to keep the picture in view of the child to copy the image if the child chooses. The picture, and canvas an screen1 show the full alphabet, thus encouraging the child to write the letters how they see fit to have a play around with the letters for fun.

With the use of a text to speech, using the child voice and I created sounds, letters and motivational speech that help direct and teach the child the letters. The app does not use rewards but does congratulate the child, and provide an encouraging message at the end and giving the option to go back to the beginning and play again. The pictures have an animal that coincides with the letter for example A is for ant.

The full alphabet plays automatically when the complete screen is initialised to further reinforce the learning and participation of the child. A picture of a star is present to reinforce that the child has done well and to encourage the child to continue to learn. I decided on a star as children are usually marked, and rewarded with stars from parents and teachers when completing milestones at this age.

The Animals are not all in the same type of picture colouring, format, or theme, and this is to keep the child's interest as the changes provide some mystery in very subtle ways. The options for the animals were determined by the child's age, what I felt would be most familiar to the child, most likely to be recognised in everyday life through home, tv etc...

Player Speech list;

The full alphabet

The alphabet, Learn with me.

Ahh A is for Ant.B is for Bat.

Kah C Is for Cat.

Dah D is for Dogs.

Ehh E is for Elephant

Fah is for Fish.

Gah is for Goat.

You are awesome, shall we play again?



Screen_A Completed Screen Blocks (with comments) Initial plan/design IMAGE Buttons

Comments: The app layout changed from the initial design plan. The screen has a simple layout using four horizontal arrangements to section the page into two. Image is merged with the canvas. A clear canvas button was added after feedback was given.

Interactive alphabet app for ages 3-7 years; All assets, and developments have been in line with the age appropriate requirement:

Learn the shapes and sounds of the letters. The child is met with the sounds of the letter, pictures of a letter and an animal that describes the alphabet letter also. The changing colours, animals and theme of the pictures help teach the child the alphabet.

Keep the child motivated and engaged in learning. Carons to draw on with their fingers to copy the image, sounds to motivate the child as the child can copy the sound the child voice on the player is making. The fine trust may provide a way to leave, clear carons, play sound and continue to the next screen using consistent color, placement and tust to help the child ravigate the app. The changing colours, animals and theme of the pictures help teach the child the alphabet and stay motivated. The sound button and carons is always placed in the centre of the four huttons with bright orange color with the sound picture indicating its purpose clearly to the child.

No reward or achievements need to be included for this app. When the sound button is clicked, a child's voice speaks using a player, keeping the child notivated, and to help the child understand the apply suppose. The player at the complete screen rules the child they are awesome and asks if they would like to play again, I used a picture of a star to inclicate they have done well and to mortisate the child to continue to be sufficient of the play again. I used a picture of a star to inclicate they have done well and to mortisate the child to continue to be sufficient they have done well and to mortisate the child to continue to be sufficient to the play again. I used a picture of a star to inclicate they have done well and to mortisate the child to continue to be sufficient to the player of the continue to be sufficient to the player of the player of the continue to be sufficient to the player of t

Code with comments to allow for easy maintenance.

Canvas: When a child draws on the canvas with their finger, a picture can be created within the canvas.

Clear canvas button to clear canvas of drawing.

Player: When the sound button is clicked, the voice speaks out loud the sound of the letter and the description of the picture.

Quit button: When clicked exits the app.

Next button: When clicked, the Sceen A can be viewed.

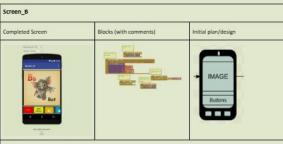
lext button: When clicked, the Sceen_A can be viewed.

Maintainability: All the apps plans and documents contain the code and comments to better maintain, update and change the apps features.

Portability; The App is available on android phone and some tablets.

Usability; This app is suitable for people who use android phones or tablets

All code is marked with easy to read descriptions.



Comments: The app layout changed from the initial design plan. The screen has a simple layout using four horizontal arrangements to section the page into two. Image is merged with the carroas. A clear carroas button was added after feedback was given.

Interactive alphabet app for ages 3-7 years; All assets, and developments have been in line with the age appropriate requirement;

Learn the shapes and sounds of the letters. The child is met with the sounds of the letter, pictures of a letter and an animal that describes the alphabet letter also. The changing colours, animals and theme of the pictures help teach the child the alshabet.

Keep the child motivated and engaged in learning. Carnos to draw on with their fingers to copy the image, sounds to motivate the child as the child and copy the sound the child's voice on the player is making. The four buttons provide a way to losve, clear carnos, play sound and continue to the next screen using consistent color, placement and tat to help the child marging the top, The changing colours, animals and theme of the placetimes help teach the child the alphabet and stay motivated. The sound button and carnos is always placed in the centre of the four buttons with bright orange color with the sound bittom indicating its turnose clearly to the child.

Code with comments to allow for easy maintenance.

Canwas: When a child draws on the canwas with their finger, a picture can be created within the canwas.

Clear canvas button to clear canvas of drawing.

Player: When the sound button is clicked, the voice speaks out loud the sound of the letter and the description of the picture.

Quit button: When clicked exits the app.

Next button: When clicked, the Sceen_C can be viewed.

Maintainability; All the apps plans and documents contain the code and comments to better maintain, update and change the apps features.

Portability; The App is available on android phone and some tablets.

Usability: This app is suitable for people who use android phones or tablets

All code is marked with easy to read descriptions.

Screen_C		
Completed Screen	Blacks (with comments)	Initial plan/design
C		IMAGE —

Comments: The app layout changed from the initial design plan. The screen has a simple layout using four horizontal arrangements to section the page into two. Image is merged with the canvas. A clear canvas button was added after feedback was given.

Interactive alphabet app for ages 3-7 years; All assets, and developments have been in line with the age appropriate requirement;

Learn the shapes and sounds of the letters. The child is met with the sounds of the letter, pictures of a letter and an animal that describes the alphabet letter also. The changing colours, animals and theme of the pictures help teach the child the absolute.

Keep the child motivated and engaged in learning. Caroas to draw on with their fingers to copy the image, sounds to motivate the child as the child can copy the sound the child woice on the player is making. The four buttons provide a way to lowe, clear caroas, play sound and continue to the next screen using consistent color, placement and to to help the child navigate the sap. The changing colours, animals and themse of the pictures help teach the did the alphabet and way motivated. The sound button and caroas is always placed in the centre of the four buttons with bright orange color with the sound picture indicating its purpose clearly to the child.

No reward or achievements need to be included for this app. When the sound button is clicked, a child's voice speaks using a player, keeping the child notivated, and to hely the child understand the apply suppose. The player at the complete screen tells the child they are awesome and asks if they would like to play again. I used a picture of a star to indicate they have done well and to morivate the child to continue to be add.

Code with comments to allow for easy maintenance.

Canvas: When a child draws on the canvas with their finger, a picture can be created within the canvas.

Clear canvas button to clear canvas of drawing.

Player: When the sound button is clicked, the voice speaks out loud the sound of the letter and the description of

Quit button: When clicked exits the app.

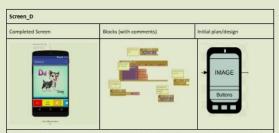
Next button: When clicked, the Sceen D can be viewed.

Maintainability; All the apps plans and documents contain the code and comments to better maintain, update and change the apps features.

Portability; The App is available on android phone and some tablets.

Usability; This app is suitable for people who use android phones or tablet

All code is marked with easy to read descriptions.



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No reward or achievements need to be included for this app. When the sound button is clicked, a child's voice speake using a player, leeping the child motivated, and to help the child understand the agriy burpone. The player at the complete screen tells the child they are awesome and asks if they would like to play again. I used a picture of a star to indicate they have done well and to morivate the child to continue to lead to.

Code with comments to allow for easy maintenance.

Canvas: When a child draws on the canvas with their finger, a picture can be created within the canvas.

Clear canvas button to clear canvas of drawing.

Player: When the sound button is clicked, the voice speaks out loud the sound of the letter and the description of the picture.

Ouit button: When clicked exits the app.

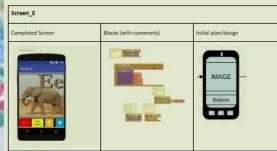
Next button: When clicked, the Sceen E can be viewed.

Maintainability; All the apps plans and documents contain the code and comments to better maintain, update and change the apps features.

Portability: The App is available on android phone and some tablets.

Usability; This app is suitable for people who use android phones or tablet

All code is marked with easy to read descriptions.



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Keep the child motivated and engaged in learning, Carrox to draw on with their fingers to copy the image, sounds to motivate the child as the child is concept the sound be child's vice on the player is making. The four buttons provide a way to lowe, clear carrox, play sound and continue to the next screen using consistent color, placement and tat to help the child marging the pap. The changing colours, animals and theme of the plactimes help teach the child the alphabet and stay motivated. The sound button and carroxs is slaways placed in the centre of the four buttons with bright orange color with the sound picture in indicating its purpose clearly to the child.

No reward or achievements need to be included for this app. When the sound hutton is clicked, a child's voice speaks using a player, keeping the child motivated, and to help the child understand the app's purpose. The player at the complete screen tells the child they are awesome and asks if they would like to play again. I used a picture of a star to indicate they have done well and to moritate the child to continue to lead to continue to the and.

Code with comments to allow for easy maintenance.

Canvas: When a child draws on the canvas with their finger, a picture can be created within the canvas.

Clear canvas button to clear canvas of drawing.

Player: When the sound button is clicked, the voice speaks out loud the sound of the letter and the description of the picture.

Quit button: When clicked exits the app.

Next button: When clicked, the Sceen F can be viewed.

Maintainability; All the apps plans and documents contain the code and comments to better maintain, update and change the apps features.

Portability; The App is available on android phone and some tablets.

Usability; This app is suitable for people who use android phones or tablet

Screen_F

Completed Screen Blocks (with comments) Initial plan/design







Comments: The app layout changed from the initial design plan. The screen has a simple layout using four horizontal arrangements to section the page into two. Image is merged with the canvas. A clear canvas button was added after feedback was given.

Interactive alphabet app for ages 3-7 years; All assets, and developments have been in line with the age appropriate requirement;

Learn the shapes and sounds of the letters. The child is met with the sounds of the letter, pictures of a letter and an animal that describes the alphabet letter also. The changing colours, animals and theme of the pictures help teach the

Keep the child motivated and engaged in learning. Canvas to draw on with their fingers to copy the image, sounds to motivate the child as the child can copy the sound the child's voice on the player is making. The four buttons provide a way to leave, clear canvas, play sound and continue to the next screen using consistent color, placement and tax to help the child marginet the app. The changing colours, ministals and theme of the pictures help teach the child the appliest the the clift the appliest and stay motivated. The sound button and canvas is always placed in the centre of the four buttons with bright orange color with the sound pictures indicating its purpose clearly to the child.

No reward or achievements need to be included for this app. When the sound button is clicked, a child's voice speaks using a player, keeping the child motivated, and not help the child understand the agry's purpose. The player at the complete screen rells the child they are awesome and asks if they would like to play again. I used a picture of a star to inclicate they have done well and to mortisate the child to continue to lead to continue to lead to the continue the child to continue the child to continue to the advantage.

Code with comments to allow for easy maintenance.

Canvas: When a child draws on the canvas with their finger, a picture can be created within the canvas.

Clear canvas button to clear canvas of drawing.

Player: When the sound button is clicked, the voice speaks out loud the sound of the letter and the description of

Quit button: When clicked exits the app.

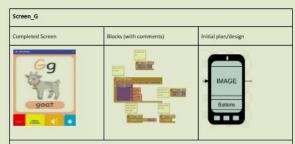
Next button: When clicked, the Sceen G can be viewed.

Maintainability; All the apps plans and documents contain the code and comments to better maintain, update

Portability: The App is available on android phone and some tablets.

Usability; This app is suitable for people who use android phones or tablet

All code is marked with easy to read descriptions.



Comments: The app layout changed from the initial design plan. The screen has a simple layout using four horizontal arrangements to section the page into two. Image is merged with the canvas. A clear canvas button was added after feedback was given.

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Keep the child motivated and engaged in learning, Carnos to draw on with their fingers to copy the image, sounds to meticate the child as the child and oney the sound the child's voice on the player is making, the four hustmost provide a way to lowe, chear carnos, play sound and continue to the next screen using consistent color placement and tat to help the child manigate the ago. The changing colours, animals and otheren of the placetures help teach the child the algabeth and stay motivated. The sound button and carnos is always placed in the centre of the four buttons with bright orange color with the sound picture indicating its purpose clearly to the child.

No reward or achievements need to be included for this app. When the sound button is clicked, a child's voice speaks using a player, keeping the child motivored, and to help the child understand the agrip is purpose. The player at the complete screen tells the child they are avecome and asks if they would like to play again, I used a picture of a star to indicate they have done well and to mortisate the child to continue to lead to continue to lead to the continue to the continue to the continue to the child to continue to the child to the continue to the continue to the continue to the child to the continue to the continue to the continue to the child to the continue to the continue to the child they are the child the child they are the child they are the child the child they are the child they they are the child they they are the child they t

Code with comments to allow for easy maintenance.

Canvas: When a child draws on the canvas with their finger, a picture can be created within the canvas.

Clear canvas button to clear canvas of drawing.

Player: When the sound button is clicked, the voice speaks out loud the sound of the letter and the description of the picture.

Quit button: When clicked exits the app.

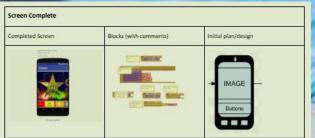
Next button: When clicked, the Complete screen can be viewed.

Maintainability; All the apps plans and documents contain the code and comments to better maintain, update and change the apps features.

Portability; The App is available on android phone and some tablets.

Usability; This app is suitable for people who use android phones or tablet

All code is marked with easy to read descriptions.



Comments: The app layout changed from the initial design plan. The screen has a simple layout using four horizontal arrangements to section the page into two. Image is merged with the canvas. A clear canvas button was added after feedback was even.

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Keep the child motivated and engaged in learning. Carwas to draw on with their fingers to cupy the image, sounds to motivate the child as the child can copy the sound the child's voice on the player is nading. The foot rotutous provide a way to leave, clear carwas, play sound and continue to the next screen using consistent color placement and to to help the child manigate the app. The changing colours, animals and theme of the pictures help to each the child the alphabet and symptomized. The sound button and carwas is always placed in the centre of the four buttons with bright orange color with the sound picture indicating its purpose clearly to the child.

No reward or achievements need to be included for this app. When the sound hutton is clicked, a child's voice speaks using a player, leeping the day to help the falled understand the age's purpose. The player at the complete screen the fall of the player and the speaks upon the player at the complete screen their force which they are assessment asks if they would like to play again, I used a picture of a start to indicate they have one well and to not notive the child to continue to be lart to play again, I used a picture of a start to

Code with comments to allow for easy maintenance.

Canvas: When the child draws with their finger produces a picture using white paint.

Clear canvas button to clear canvas of drawing.

Player: initialises when the screen is initialised. The second player when clicked sounds out the child's voice.

Quit button: When clicked exits the app.

Play again button: When clicked, the Scene1 can be viewed.

Maintainability; All the apps plans and documents contain the code and comments to better maintain, update and change the apps features.

Portability; The App is available on android phone and some tablets.

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