

Unlock:

Functional specification

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Document Control

Version	Date	Sections changed	What was changed
1.0	29/1/18		

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UNLOCK - York is an application for tourists to discover and engage with local attractions in a way they couldn't before. Users can navigate the local area, discover new things, and receive rewards for visiting attractions. Local business owners can draw in new visitors by participating in the app. Local tourism boards can help to drive new enthusiasm towards their locations.

The application can bring the stories and history of the attractions to life with interactive multimedia linked to specific points of interest.

We will be piloting in the City of York with a view to expand to other destinations after refining the concept.

User Stories

Story ID	Priority (1-5)	Phone (P) or Kiosk (K)	As a...	I can...	So that...
S01.0.0	5	K	Administrator	Load a document	New maps and features can be set on the application.
S02.0.0	5	PK	User	See a map with all major points-of-interest visible in the location	I can view all the content.
S02.1.0	5	PK	User	Zoom into and out of the main map	I can view the map in more detail or view the full map on my screen.
S03.0.0	4	PK	User	See my current location relative to the POI as a dot on the map	I can navigate around the map and see nearby POI.
S04.0.0	4	P	User	Unlock rewards from visiting locations	I am incentivised to keep visiting new places.
S04.1.0	2	P	User	Have a celebration animation and sound effect when unlocking an award	I feel a sense of achievement.
S05.0.0	3	P	User	See how many	I can view my progress for that



				major/minor POI I haven't yet unlocked on the main and sub maps	area.
S05.1.0	3	P	User	Tap the unlock bar to see all the locations/rewards	I can view my overall progress.
S05.2.0	2	P	User	See a leaderboard for the local area and between friends	Compare my progress.
S06.0.0	4	P	User	Download a personalised version of the tour with additional features available on my phone	I can have a portable version of the app.
S06.1.0	3	P	User	When visiting a location, extra content is unlocked	I am encouraged to explore the city.
S07.0.0	5	PK	User	Press a POI icon	I can find all the interesting features of the location on a smaller map with icons.
S07.1.0	3	PK	User	I can see opening times/prices for the location	I can plan my day as well as the cost.
S07.2.0	4	PK	User	I can see the description of the location.	I can learn about the POI.
S07.2.1	4	PK	User	Scroll up and down the page	I can view all the information of it doesn't all fit to my screen.
S07.3.0	4	PK	User	I can watch videos related to the location	I can learn about the POI.
S07.3.1	3	PK	User	Play/pause/fast forward and rewind/ change vol/etc	I can re-listen/pause or adjust the video volume or playback time.
S07.4.0	2	PK	User	I can hear audio clips related to the location	I can learn about the POI.
S07.4.1	2	PK	User	Play/pause/fast forward and rewind/ change	I can re-listen/pause or adjust the audio volume or playback



				vol/etc	time.
S07.5.0	4	PK	User	I can see photos related to the location.	I can visualise the POI.
S07.5.1	3	PK	User	Zoom into and out of the photo's	I can view the photo in more detail or view the full photo on my screen.
S08.0.0	3	PK	User	Press a sub-feature icon	I can see the description of the sub-feature.
S08.0.1	2	PK	User	Scroll up and down the page	I can view all the information of it doesn't all fit to my screen.
S08.1.0	3	PK	User	I can watch videos related to the sub-feature.	I can learn about the POI.
S08.1.1	2	PK	User	Play/pause/fast forward and rewind/ change vol/etc	I can re-listen/pause or adjust the video volume or playback time.
S08.2.0	2	PK	User	I can hear audio clips related to the sub-feature.	I can learn about the POI.
S08.2.1	2	PK	User	Play/pause/fast forward and rewind/ change vol/etc	I can re-listen/pause or adjust the audio volume or playback time.
S08.3.0	3	PK	User	I can see photos related to the sub-feature	I can visualise the sub-feature.
S08.3.1	2	PK	User	Zoom into and out of the photo's	I can view the photo in more detail or view the full photo on my screen.
S09.0.0	4	PK	Sponsor	Promote my business in the map (has to be a cafe/shop at the POI or nearby)	Users will visit as part of their city tour.
S09.1.0	3	P	User	Receive rewards (Vouchers) for visiting a certain number of POI	The app provides an additional incentive to visit the POI.



S10.0.0	2	P	User	See a suggested route around the locations	I can find my way more easily.
S11.0.0	2	P	User	Lock my phone whilst audio is playing	Continue listening to the audio guide.
S12.0.0	2	P	User	Discover hidden history	I am encouraged to keep using the app
S12.1.0	2	P	User	Automatically be notified when at a new secret location	It is challenging but not too difficult.

Acceptance Criteria

Story	Step	When...	Then...
S01.0.0	1	The administrator moves the configuration file into the load directory	
	2		The system loads the file and displays the map
	3	The administrator moves the configuration file into the load directory but the file is unable to load	
	4		The system displays an error message "unable to load file from the load directory"
S02.0.0	1	The user opens the app	
	2		An overview map is visible showing the entire local area covered by the app
S02.1.0	1	The user presses the zoom-in/zoom-out buttons	
	2		The map view zooms into or out of a smaller, more detailed area
S03.0.0	1	The user opens the map	
	2		The user's position is displayed on the



			overview map
	3	The user opens the map but is unable to detect the user's location using GPS	
	4		The system displays a error message "Unable to detect current location"
S04.0.0	1	The user visits a location they haven't visited before	
	2		Content boxes that were previously locked/disabled are now visible and can be interacted with
S04.1.0	1	The user visits a location they haven't visited before	
			An animation in the application informs the user that they have unlocked a new location
S05.0.0	1	The user is viewing the map at any level	
	2		There is a visible indication of how many POI/features have been unlocked and not unlocked
S05.1.0	1	The user taps the indication of what is locked unlocked	
	2		A screen is displayed showing more information about what is left to discover
S05.2.0	1	The user taps the indication of what is locked unlocked	
	2		A screen is displayed showing more information about what is left to discover
	3	The user taps a social/leaderboard indicator	
	4		The screen changes to display information about what friends have discovered/how



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			their scores compare
S06.0.0	1	The user installs the app and opens it	
	2		The app opens successfully
S06.1.0	1	The user visits a location on the additional content is unlocked	
	2		The display information screen now shows all the information for the current POI
S07.0.0	1	The user presses a POI icon...	
	2a	If the user is on the kiosk, and at the correct location...	
	3a		The map zooms into the sub-location and shows all available content for the POI
	2b	If the user is on the kiosk, and at a different location...	
	3b		The map zooms into the sub-location, but the extra content is locked with a message explaining that the user must visit the location to see the content
	2c	If the user is on the smart-phone app...	
	3c		The map zooms into the location and shows all the content the user has unlocked at the particular location
S07.1.0	1	The user taps on a POI icon for a location that has opening hours...	
	2		The map zooms into the location
	3		One of the visible content panes displays the opening times of the POI
S07.2.0	1	The user presses a POI icon...	



	2		The map zooms into the location
	3		One of the visible content panes displays a text description of the location
S07.2.1	1	The user scrolls down in a content pane	
	2		More content becomes visible
S07.3.0	1	The user presses a POI icon...	
	2		One of the content panes that becomes visible contains video content related to the location
	3	The user taps/clicks on video content	
	4		The video starts playing
S07.3.1	1	The user clicks the transport controls on a visible video for a location	
	2		All transport controls perform the appropriate action on the video
S07.4.0	1	The user presses on audio content related to a location	
	2		The audio content starts to play
S07.4.1	1	The user clicks on the transport controls for audio that is playing at a location	
	2		The audio content responds appropriately
S07.5.0	1	The user presses a POI icon...	
	2		..the user can see photos related to the location
S08.0.0	1	The user presses a sub-feature icon	
	2		One of the visible content panes displays a



			text description of the location
S08.0.1	1	The user scrolls down the page	
	2		More content becomes visible
S08.1.0	1	The user taps/clicks on video content	
	2		The video starts playing
S08.1.1	1	The user clicks the transport controls on a visible video for a location	
	2		The audio content responds appropriately
S08.2.0	1	The user presses on audio content related to a location	
	2		The audio content starts to play
S08.2.1	1	The user clicks on the transport controls for audio that is playing at a location	
	2		The audio content responds appropriately
S08.3.0	1	The user presses a sub-feature icon	
	2		The user can see photos related to the location
S08.3.1	1	The user zooms in and out of the image	
	2		The picture becomes bigger and smaller
S09.0.0	1	A user looks at the overview map...	
	2		...sponsored/suggested locations (cafés, shops, attractions) are visible
S10.0.0	1	The user is at a particular POI...	
	2		...suggested route(s) around the POI is visible to the user



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S11.0.0	1	The user locks their phone whilst audio content is playing	
	2		The audio content continues playing without stopping
S12.0.0	1	The user visits a 'hidden' location not listed on the app	
	2		They receive a notification saying that they are at a hidden location
	3		They receive an unlock/award for that location
	4		It appears on their map for the future
	5		Some minor content becomes available for it



Interface Wireframes

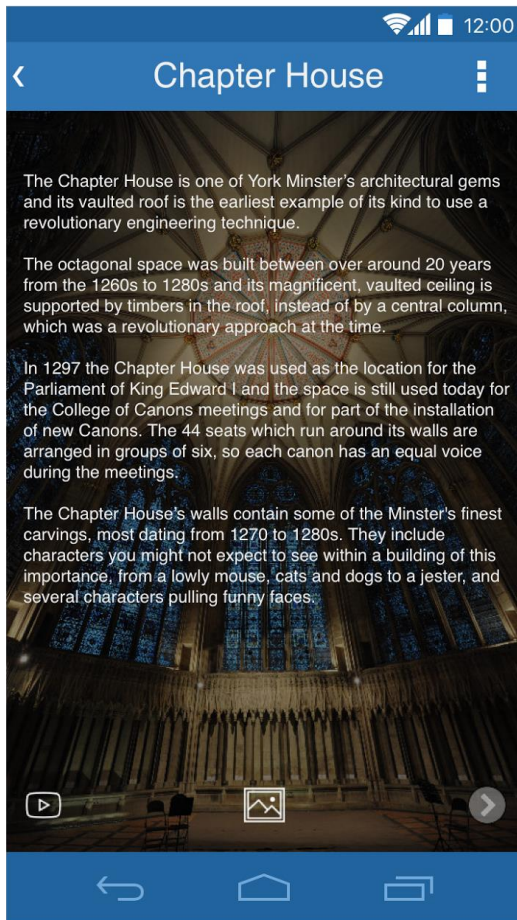
S02.0.0

Map (Screen x)





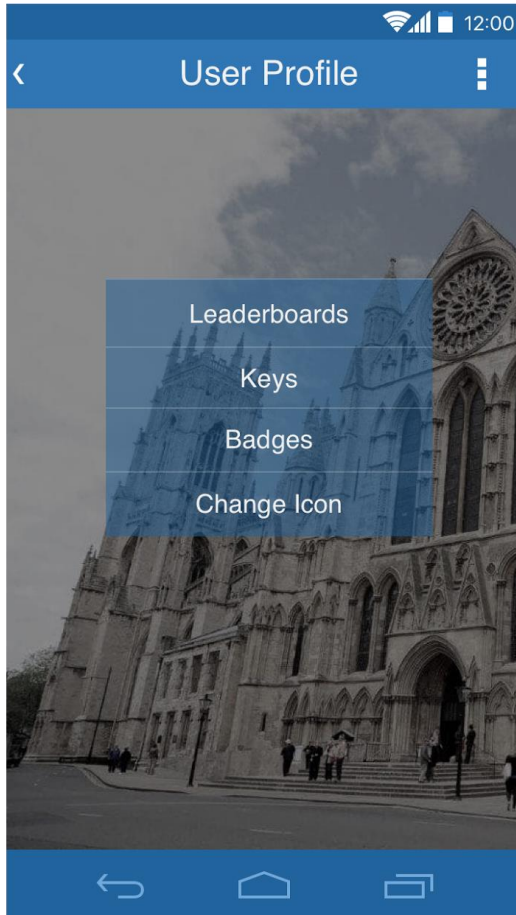
Presentation (Screen x)





S04.0.0 and S05.2.0

User Profile (Screen x)





S08.0.0

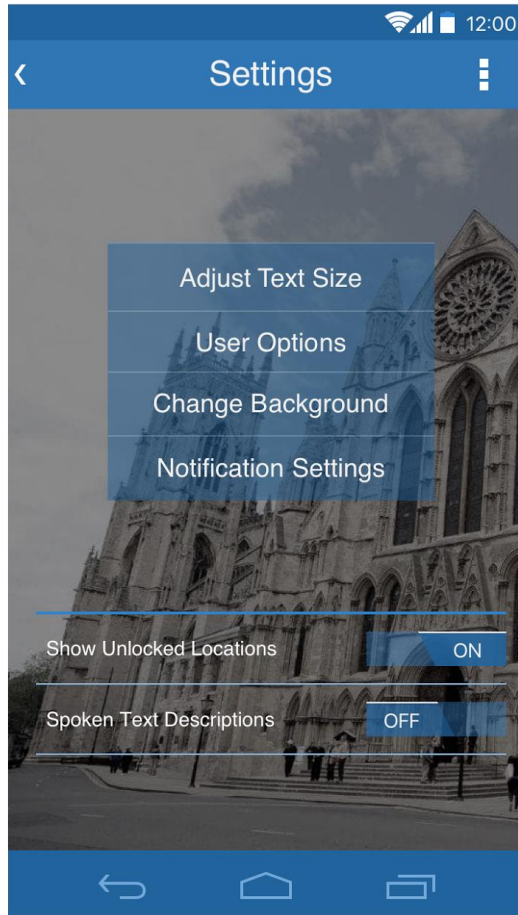
Sub Map (Screen x)





Setting

Settings (Screen x)





Overview of UI Workflows

