



Tapiwa Chikwanda System Design Document

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User Interface Design

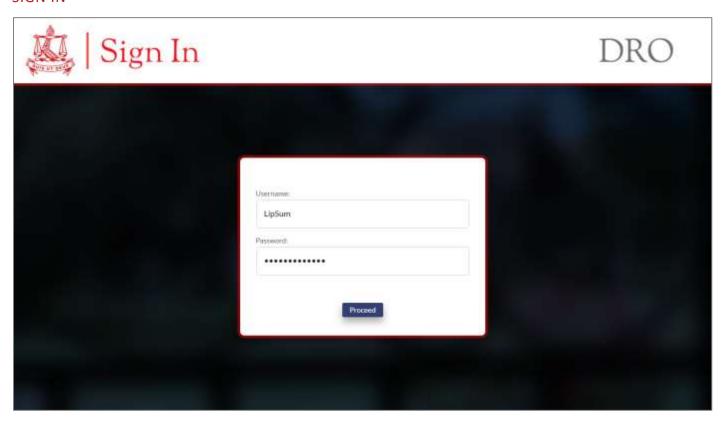
DESKTOP - WEB-BASED GUI

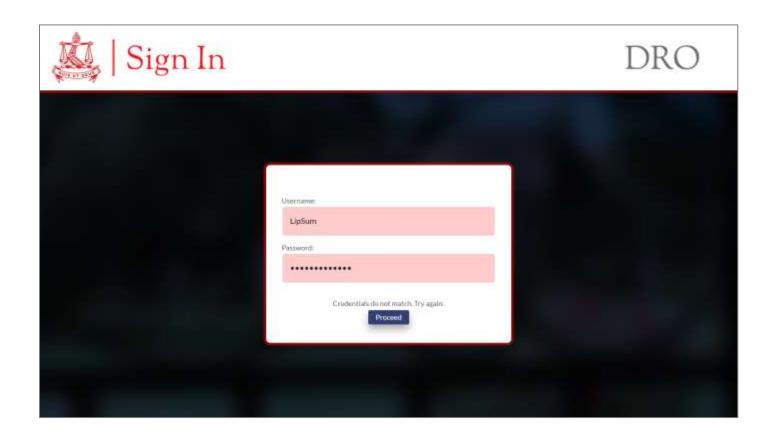
Unless specified otherwise, the screenshots below pertain to Staff users

INITIALISATION SCREENS - NO DIRECT INTERACTION

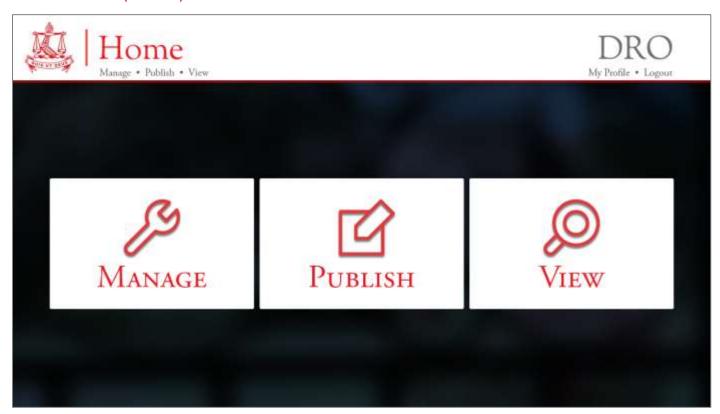


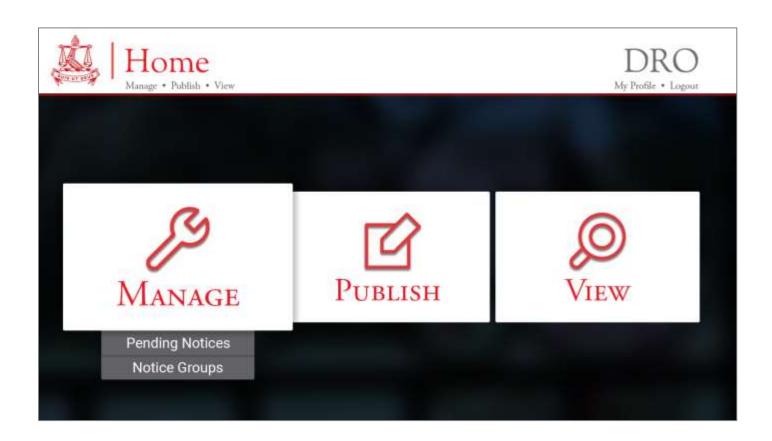


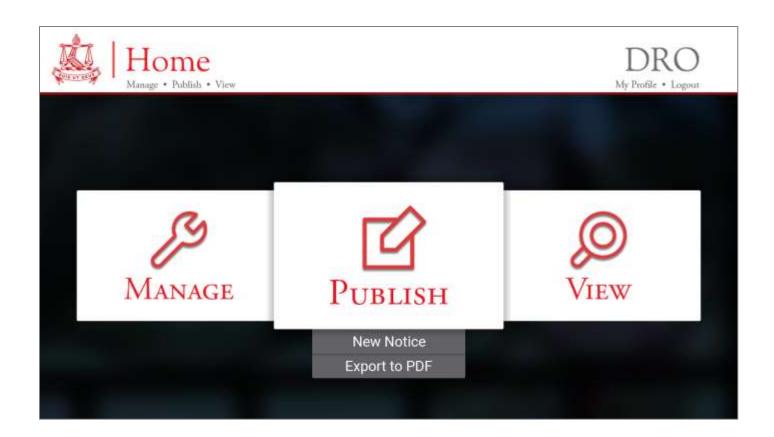


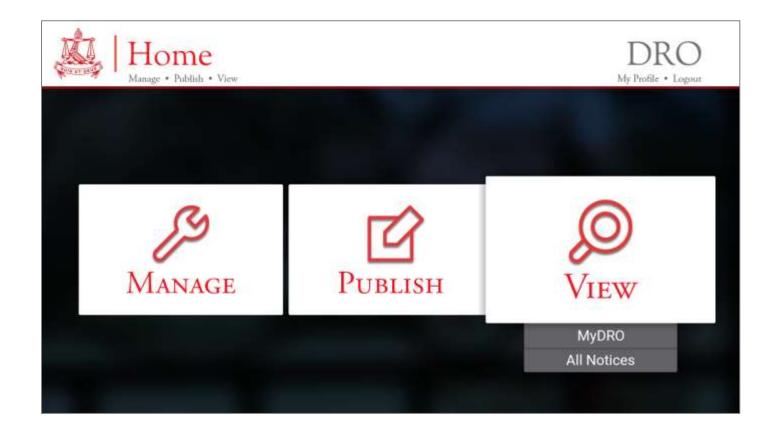


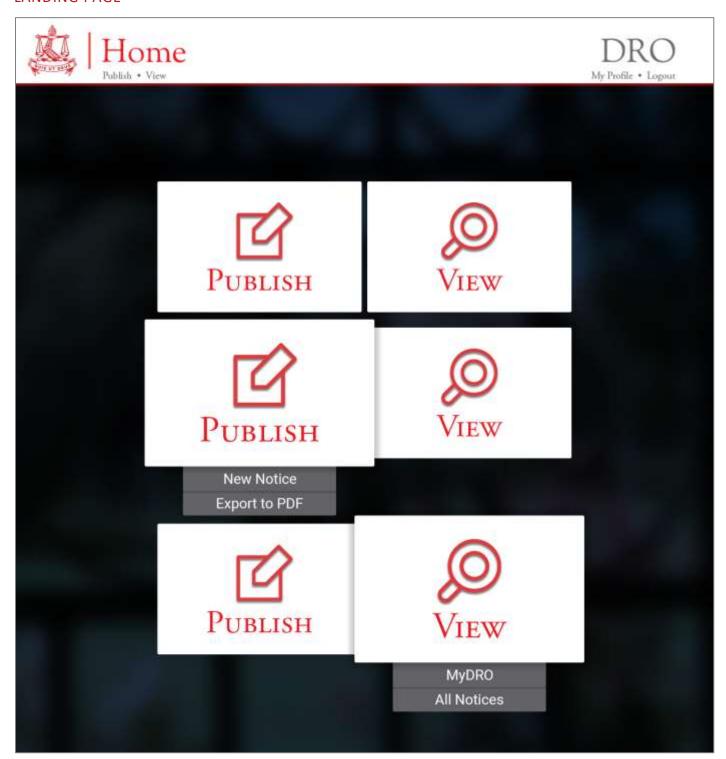
LANDING PAGE (ADMIN)









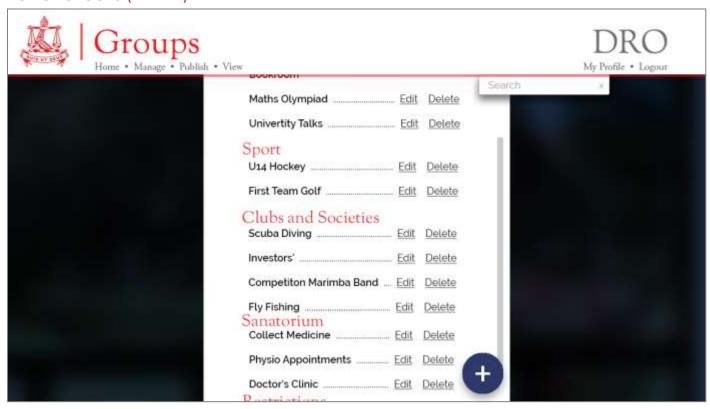


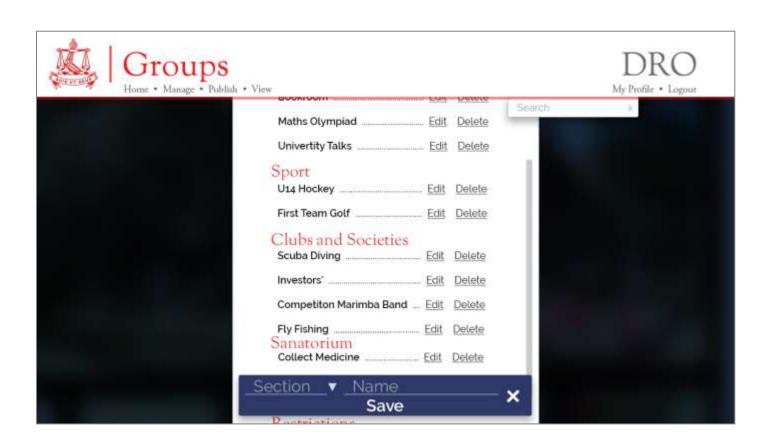


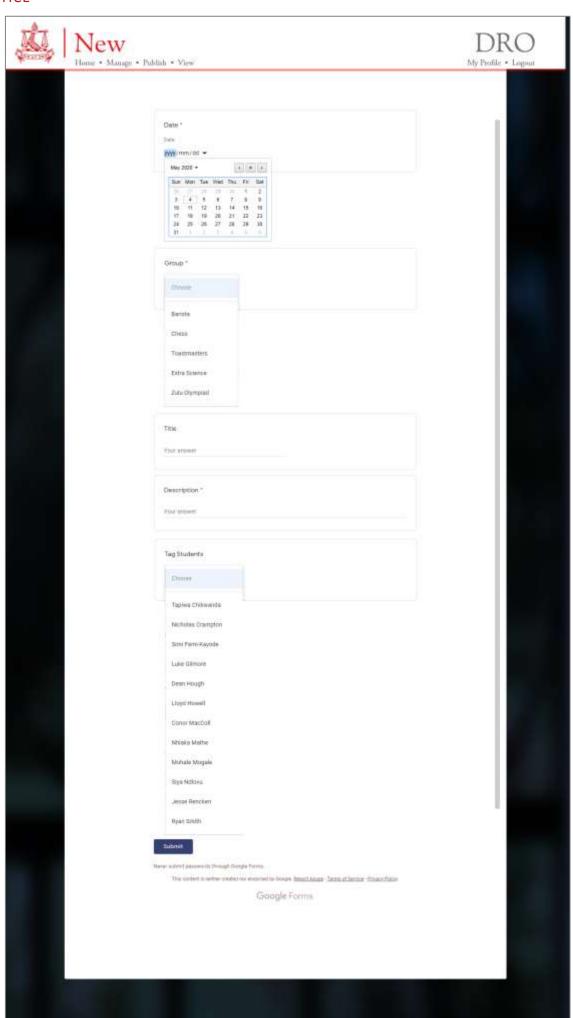


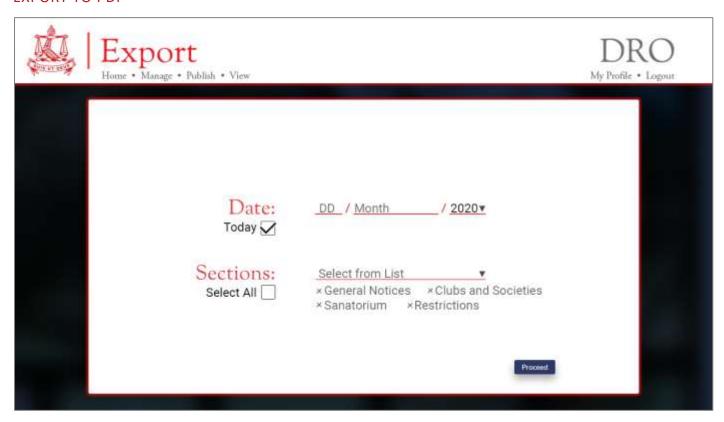
Date	Group	Title	Description	User	Appr	ove?
19 May	Mountain Biking	Hendrerit Gravida	Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Pharetra et ultrices neque omare aenean. Senectus et netus et malesuada. Nunc scelerisque viverra mauris in aliquam sem. Duis ultricies lacus sed turpis tincidunt.	D Massa	~	×
21 Jul	Toastmasters	Rutrum Quisque non Tellus	Faucibus interdum posuere lorem ipsum dolor sit amet consectetur Commodo viverra maecenas accumsan lacus vel facilisis volutpat. Nulla facilisi nullam vehicula ipsum a arcu cursus vitae congue.	S Faucibus	~	×
14 Aug	Film Appreciation Society	Putviner Mattis Nunc	A pellentesque sit amet portitior eget dolor morbi non arcu. Et ligula ullamcorper malesuada proin libero nunc consequat interdum. Adipiscing enim eu turpis egestas pretium aenean pharetra. Aliquam ultrices sagittis orci a scelerisque. Netus et malesuada fames ac turpis egestas sed tempus. Ligula ullamcorper malesuada proin libero nunc consequat interdum varius.	E Molestie	~	×
			Keep Discard			
26 Aug	Saturday Night Restrictions	Tortort	Etiam erat veilt scelerisque in dictum non consectetur. Id semper risus in hendrerit.	V Lectus	~	×
4 Sep	African Affairs	Lacus Sed	Tristique et egestas quis ipsum suspendisse ultrices gravida dictum fusce. Rhoncus aenean vel elit scelerisque mauris. Nunc eget torem dotor sed viverra ipsum nunc aliquet. Nutla at volutpat diam ut. Malesuada fames ac turpis egestas integer eget aliquet. Euismod in	M Ultr	ave Cha	nges

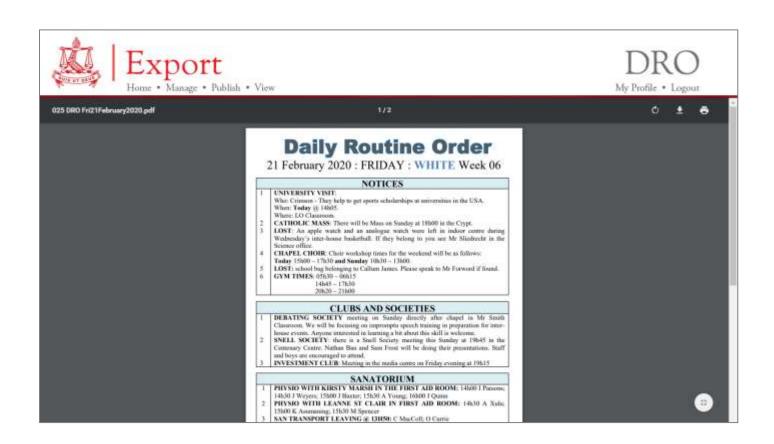
NOTICE GROUPS (ADMIN)

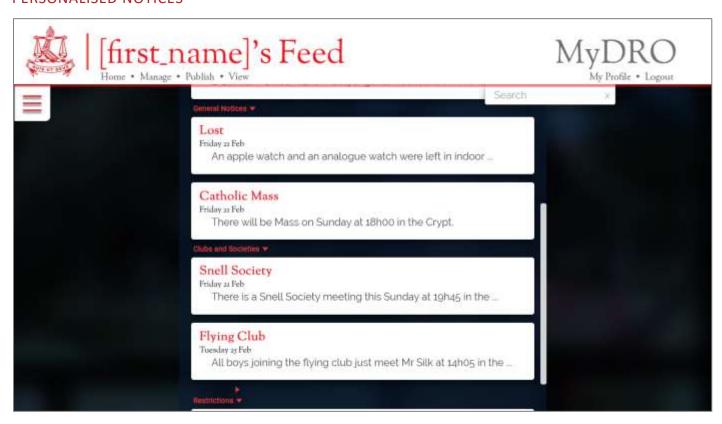


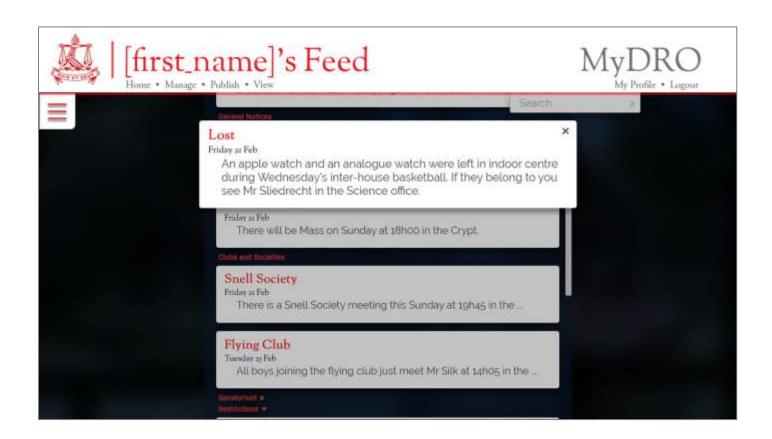


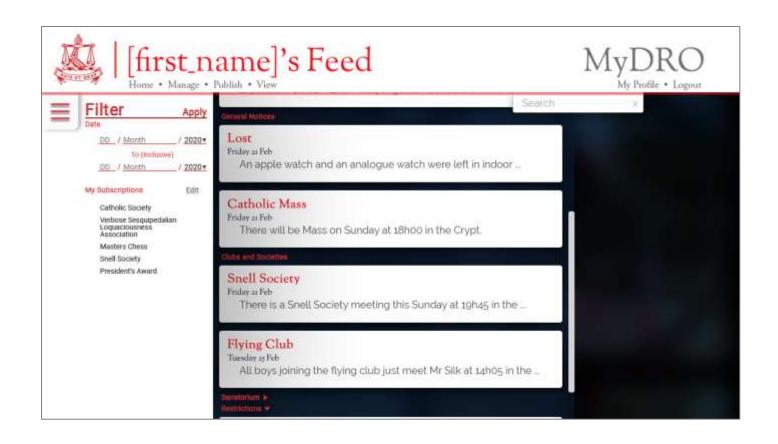


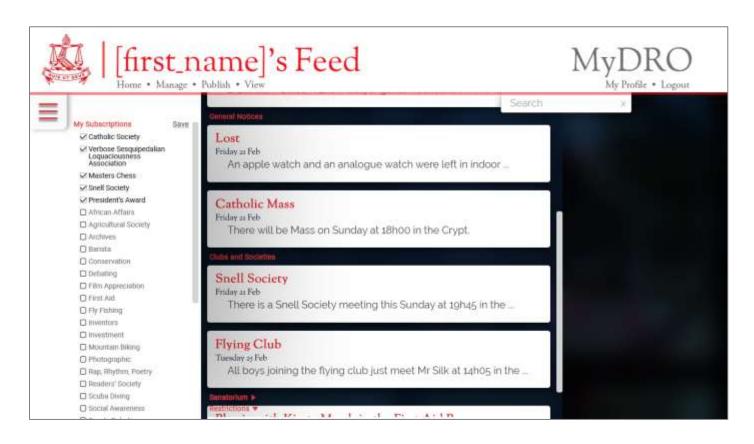


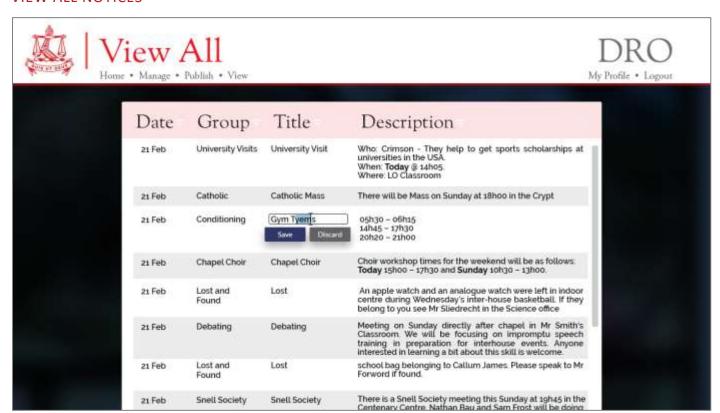


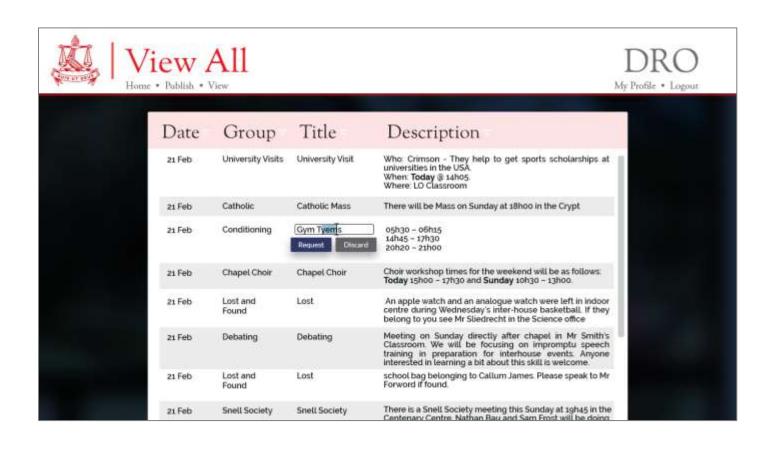








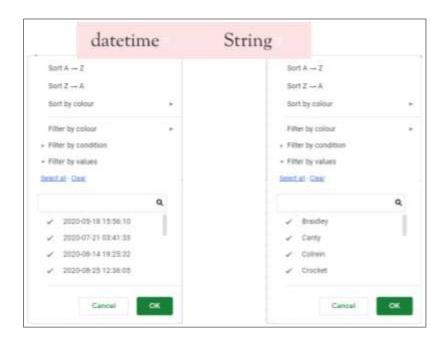




DROPDOWN MENUS



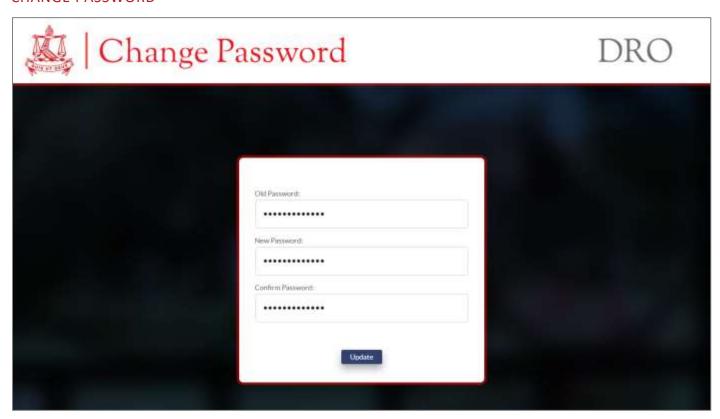


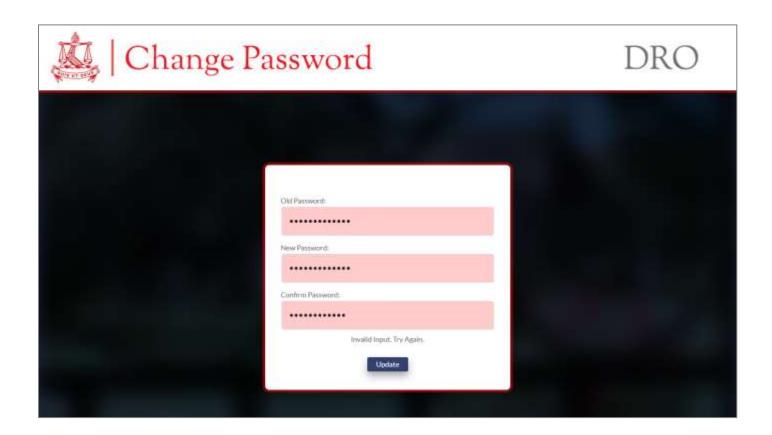








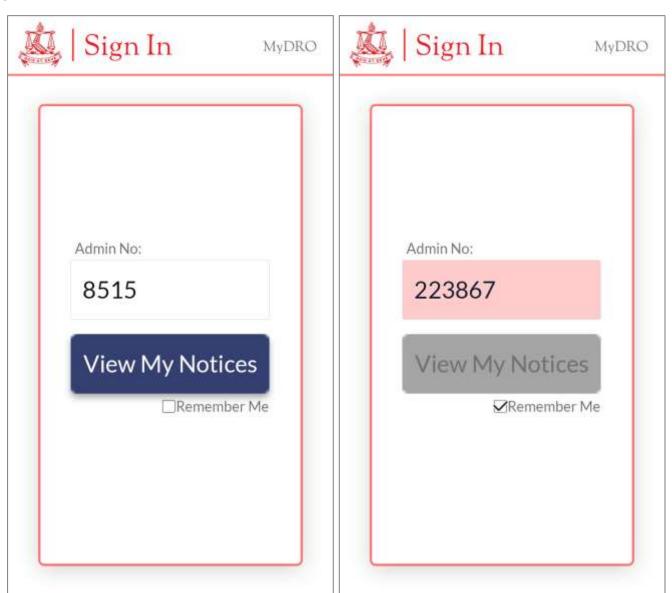


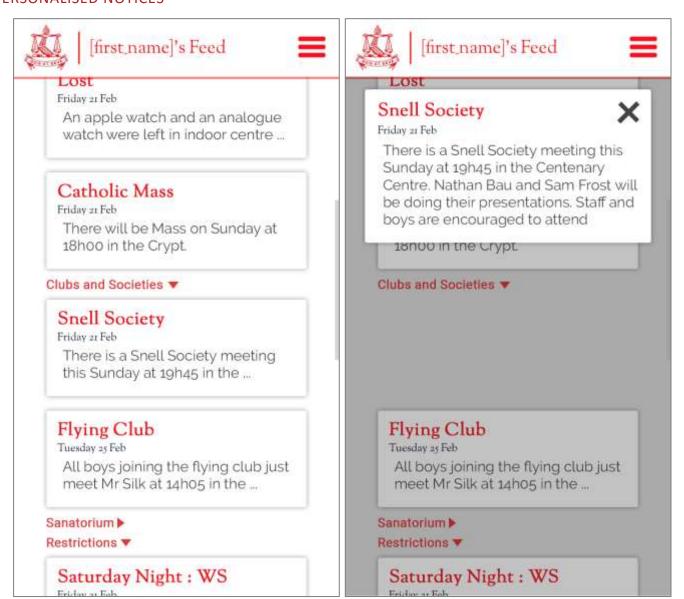


Available only to Student Users

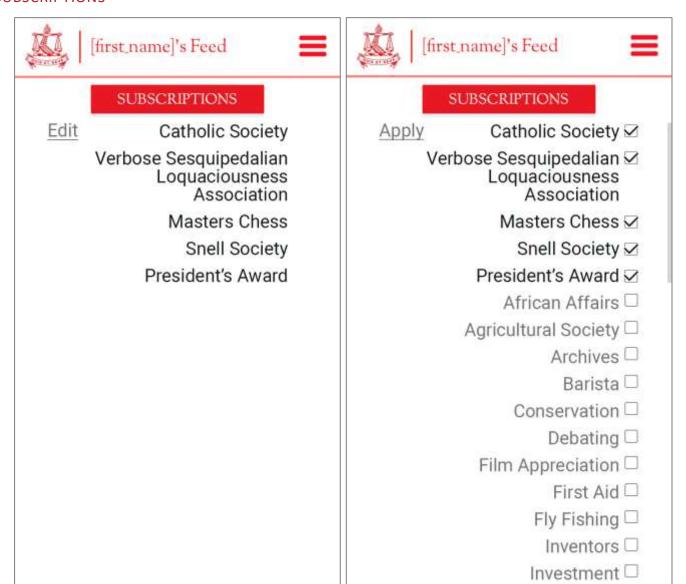
INITIALISATION SCREENS - NO DIRECT INTERACTION



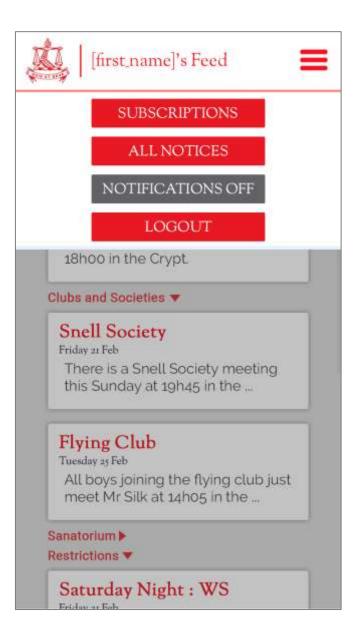














Secondary Storage Design

USERS

			Т	able Specifications
#	field_name	data_type	Extra	Notes
1	user_id	10-bit integer	auto_increment	
2	rights	enum		0-Students; 1-Staff; 2-Admins
3	first_name	40-character String		
4	surname	40-character String		
5	username	8-character String	2-character overlow	NULL for Students; typically the first 3 letters from name and surname
6	password	62-character String	2-character overlow	NULL for Students; bcrypt hash of password

	Mock Data						
user_id	rights	first_name	surname	username	password		
1	1	Glennie	Murrish	gmurri	\$2y\$04\$6A3wqS3XgAlmowlZMA6KPeqV41hnvnTsX75pqPZq4VOBlHNM1ivWe		
2	0	Bone	Crocket	NULL	NULL		
3	0	Vivi	Canty	NULL	NULL		
4	2	Reyna	Kidds	rkidds	\$2y\$04\$UKV35By61WXQE/AQQnf9g.12weUKsgIL8BpNu4iA.oXa0zb4Pf6		
5	1	Paxton	Braidley	pbraid	\$2y\$04\$5uB.gSlymv1tgC3bdp17LuMgLI9BMxC6j6799luL705c5XRYhMZnq		
6	2	Candace	Peacher	cpeach	\$2y\$04\$xMW419GLTG4U/rlaTnOekuWkPmnisPYKx1p19CSqWvnneA1AbUJAe		
7	0	Jenine	Holdron	NULL	NULL		
8	2	Alf	Roddie	aroddi	\$2y\$04\$kYEUbIWwtt00Mz9xLoiDj.z0mL49s/isEvGfYZUzPEFH1/N1ERA0.		
9	0	Silvano	Deegan	NULL	NULL		
10	0	Twyla	Colrein	NULL	NULL		

STUDENTS

1				
		Table Speci	fications	
‡	field_name	data_type	Extra	Notes
1	l <u>user_id</u>	10-bit integer		
2	2 admin_no	16-bit Integer	unique values	

Mock	Data
user_id	admin_no
2	4766
3	8523
7	10111
9	3592
10	1493

NOTICES

			Table Specification	is
#	field_name	data_type	Extra	Notes
1	<pre>notice_id</pre>	10-bit integer	auto_increment	Assumes 2 weeks averaging ~ 20 notices per day
2	user_id	10-bit integer		User who requested notice; foreign key from users table
3	publish_date	datetime		
4	display_date	datetime		
5	group_id	6-bit integer		Foreign key from groups table
6	title	70-character String		
7	description	400-character String		Subject to change once I survey common lengths
8	approval_status	enum	0-Pending, 1-Declined, 2-Approved	

			Mock Data				
<pre>notice_id</pre>	user_id	publish_date	display_date	group_id	title	description	approval_status
5	62	2020-05-18 15:56:10	19/05/2020	6			0
7	389	2020-07-21 03:41:33	21/07/2020	42			1
45	305	2020-08-14 19:25:32	14/08/2020	8			0
47	237	2020-08-25 12:36:05	26/08/2020	2			1
93	66	2020-09-04 00:42:53	04/09/2020	26			2
122	356	2020-09-04 08:27:25	04/09/2020	31			2
207	275	2020-11-18 16:17:22	18/11/2020	18			0
223	88	2020-11-21 04:13:12	23/11/2020	35			1
224	271	2020-12-08 01:58:24	09/12/2020	45			1
234	58	2020-12-28 12:23:03	29/12/2020	19			0

GROUPS

			Table Specifications	
#	field_name	data_type	Extra	Notes
1	group_id	6-bit integer	auto_increment	
2	category_id	4-bit integer	based on the 6 currently used sections, with leeway for expansion	Foreign key from categories table
3	name	50-character String		

Mock Data						
iety						
ng						
5						
oiad						
2						

CATEGORIES

	Table Specifications					
#	field_name	data_type	Extra	Notes		
1	<pre>category_id</pre>	4-bit integer				
2	name	30-character String				

Mock Data			
<pre>category_id name</pre>			
1	General Notices		
2	Sport		
3	Clubs and Societies		
4	Sanatorium		
5	Restrictions		
6	To See Staff		

SUBSCRIPTIONS

# field_name	data_type	Extra	Notes
1 user_id	10-bit integer		Part of composite primary key; foreign key from users tab
2 group_id	6-bit integer		Part of composite primary key; foreign key from groups tal

Mock	Data
user_id	group_id
934	30
906	62
527	63
484	37
983	63
458	21
631	37
538	48
718	25
1011	9

MENTIONS

	Table Specifications						
#	field_name	data_type	Extra	Notes			
1	<pre>notice_id</pre>	10-bit integer		Part of composite primary key; foreign key from notices table			
2	user_id	10-bit integer		Part of composite primary key; foreign key from users table			

Mock Data						
<pre>notice_id</pre>	user_id					
1016	214					
622	541					
769	299					
788	568					
750	359					
517	556					
515	414					
824	45					
777	244					
163	648					

RELATIONSHIPS

