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CRC Cards

Data models

Class: Article	
Description: The data model for articles. Contains metadata and actual article data	
Responsibility:	Collaborator:
Contains article data	
Contains article metadata	

Class: Genre	
Description: The data model for genres. Correlates a genre with its corresponding id in the database	

Responsibility:	Collaborator:
Contains genre with id	

Class: User	
Description: The data model for users. Describes a user in the database.	
Responsibility:	Collaborator:
Contains user data	

Class: LoginRegisterForm	
Description: The data model for form submissions	
Responsibility:	Collaborator:
Contain form data	

Data access layer

Class: ArticleContext

Description: Connects to the database and handles simple queries on the articles table in the db

Responsibility:

Collaborator:

Connection to DB

Retrieve all articles from a website

Article

Retrieve genres associated with an article

Genre

Retrieve articles from a list of article ids

Article

Class: GenreContext

Description: Connects to the database and retrieves all genres associated with a website

Responsibility:

Collaborator:

Connection to DB

Retrieve all genres from a website

Genre

Class: CookiesContext	
Description: Connects to the database and retrieves or removes a user's cookies	
Responsibility:	Collaborator:
Connection to DB	
Retrieve a cookie (if exists)	
Delete a cookie	
Add a cookie	

Class: LoginContext	
Description: Connects to the database and provides an interface for user authentication related actions on the db	
Responsibility:	Collaborator:
Connection to DB	
Check user credentials	

Check if email exists	
Password hashing	
Adding a user	
Changing a user's password	

Class: ResetContext	
Description: Connects to the database and handles keys for resetting a password	
Responsibility:	Collaborator:
Connection to DB	
Check if key exists	
Set a key	
Remove a key	

Class: UserContext

Description: Connects to the database and provides access to user related data, such as favourites	
Responsibility:	Collaborator:
Connection to DB	
Get a user's favourites	
Add a favourite to the user	
Remove a favourite from the user	
Get a user object	User

Controllers

Class: HomeController	
Description: Populates landing page with articles and genres	
Responsibility:	Collaborator:
Load data into website	GenreContext, ArticleContext

Class: AuthController

Description: Handles user login and register and other user authentication actions

Responsibility:

Collaborator:

Handle user login

LoginRegisterForm

Handle user register

LoginRegisterForm

Change user password

LoginContext

Set cookie for login

CookiesContext

Class: CookieController

Description: Handles cookies

Responsibility:

Collaborator:

Check for existing
cookie

CookiesContext

Remove existing cookie

CookiesContext

Class: FilterController

Description: Gets filtered genres and data. The filter is based on the website id or list of article ids

Responsibility:

Collaborator:

Get filtered articles

ArticleContext

Get filtered genres

GenreContext

Get articles from list of
ids

Articlecontext

Class: PasswordResetController

Description: Sends password reset emails and authenticates requests to change a password

Responsibility:

Collaborator:

Check if a link is valid

ResetContext

Get a reset key

ResetContext,
UserContext

Get username

UserContext

Send reset email	
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Class: UserController	
Description: Handles user favourites and gets userId or full object	
Responsibility:	Collaborator:
Add favourite	UserContext
Remove favourite	UserContext
Get favourites	UserContext
Get user id	UserContext
Get user object	