

Bislerium Blogging Platform Requirements

User Requirements

Requirement	Description
User Registration	Users can register for an account
Profile Management	Users can view, update, and delete their profile
Password Management	Users can change their password and reset it via email
Blog Creation	Bloggers can create, edit, and delete their own blog posts
Image Upload	Image file attachments must not exceed 3 MB
Blog Browsing	Users can browse through a paginated and sortable catalogue of blogs
Sorting Options	Blogs can be sorted by random, popularity, and recency
Anonymous Access	Surfers can view and read blogs without logging in
Blog Reactions	Bloggers can upvote or downvote their own and others' blog posts
Commenting	Bloggers can comment on their own and others' blog posts
Comment Reactions	Comments can be upvoted or downvoted
Comment Management	Authors can update or delete their own comments
Notifications	Push notifications for blog activities (reactions, comments) to authors
Update History	Preserve history of updates for both blogs and comments

Admin Requirements

Requirement	Description
Admin Creation	Admins can create other admin accounts
Dashboard Access	Admins have exclusive access to a system usage dashboard
All-time Metrics	Dashboard shows all-time count of blog posts, upvotes, downvotes, and comments
Monthly Metrics	Dashboard shows daily count of activities within a chosen monthly time frame
Top 10 Rankings	Dashboard displays top 10 most popular posts and bloggers (all-time and monthly)
Popularity Calculation	$\text{Blog popularity} = (2 * \text{upvotes}) + (-1 * \text{downvotes}) + (1 * \text{comments})$

Additional Notes

1. The application should be developed using C# ASP.NET.
2. The project should be compatible with Visual Studio 2022 or above.
3. External/3rd party libraries can be used.
4. The application should interface with a backend database (MS SQL).
5. Proper documentation, including setup instructions and code explanations, should be provided.