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353 Project

1. General user authentication

action	expected result	if test pass
Register with valid username, displayName, and password	User account is created, navigates to login	✓
Log in with valid credentials	Redirect to <code>/channels</code> , token stored in <code>localStorage</code>	✓
Log in with invalid credentials	Error alert "Invalid credentials" is shown	✓
Log out	Token cleared, redirected to <code>/login</code>	✓

2. protected routes

route	access without login	access with login	if test pass
<code>/channels</code>	Redirects to login	Shows channel list	✓
<code>/account</code>	Redirects to login	Loads account settings	✓

3. user profile update

action	expected	if test pass
Upload avatar image	Preview shows, saved to <code>localStorage</code>	✓
Change display name/skill level	Saved and reflected in posts	✓

4. Stats endpoints

endpoint	expected	if test pass
<code>/stats/top-users</code>	Top posters with upvote/downvote count	✓
<code>/stats/most-posts</code>	Most active users	✓

## 5. Edge cases

case	expected	if test pass
Create channel w/o name or desc	Error message shown	✓
Submit post with empty topic/data	Prevent submission	✓
Submit reply with no text	Form blocked, error shown	✓
Large image upload	Handles via base64; tested file size limit	✓
Invalid token	Server returns 403, redirect to login	✓
Non-image upload on avatar	Action blocked, error shown	✓