

Why WALLE?





WALLE Features

Homepage:

- 1 Upload up to 2 videos
- 2 Create new WALLEs
- 3 Display/edit all WALLEs and their associated info
- 4 Merge videos when 2 videos 7 are submitted

Editing screen:

- **(5)** Add new popups
- 6 Edit an existing popup
 - Submit changes

Student's screen:

- - Show popups synchronized with the video

What's Next for WALLE?

Incorporate more features:

- Dynamic X-Y plot that displays data synchronized with the video.
- Measurement data window that contains static (specimen size) and dynamic (force, displacement) data
- Ability for students to change the playback speed

Strengthen backend and security:

Web-based Augmented Laboratory Learning Experiences https://walle.cs.unh.edu Pratyush Kharel, Crystal O'Brien, Scotton Price Department of Computer Science, University of New Hampshire, Durham, NH 03824

8 Control video using timebar controls

- Back up stored data - Add HTTPS and SSL certificates

- Manage access and

administrative privileges



Using WALLE

Sponsors: Betsy Coleman, Matthew Plumlee, Eshan Dave

(3)





Creating a WALLE:					
LLE				Home	Sign in
ALLE (Web-base	d Augme	ented Labora	tory Lea	rning Expe	eriences)!
Upload Files					
Uploading a video will mal the videos into one.	ke it available	in the form below. U	ploading two	videos will merg	e
Browse No file selected. Browse No file selected.					
Name of video:					
Uploa	ad				
Create a WALLE!					
Enter WALLE Name:					
Select Video: The Earth Goe Select Associated Course					
Submit	03 019				
C d 2 mil					
Existing WALLEs					
	Course		Edit	Link to	
WALLE Name	Name	Video Name	WALLE	WALLE	
CEE635 Concrete Compression	CEE 635	Concrete Compression	Edit	Copy Link to WALLE	
		•			

	WALLE client makes request
2	NGINX forwards request to the backend.
Э	The backend interprets this request, and prepares a response.
За	The database is appended or queried using mongoose.js
4	Backend sends response through NGINX
5	NGINX forwards the response to the client.
6	The client interprets the reponse and changes its state accordingly.