Experiment 8: Email and Phone Number Validation

Objective

Implement JavaScript validation for email addresses and phone numbers, complementing the registration form validation from Experiments 6 and 7.

Implementation Details

Files

- [validation_email_phno.js](): Main validation script
- Integrates with previous experiments' files

Validation Rules

Email Validation

- Must contain @ symbol
- Valid domain structure required
- Pattern: `^[a-zA-Z0-9._-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}$`
- Common invalid scenarios handled:
  - Missing @ symbol
  - Invalid domain format
  - Multiple @ symbols

Phone Number Validation

- 10 digits required
- Optional country code (+91)
- Pattern: `^(\+91[\-\s]?)?[0]?(91)?[789]\d{9}$`
- Validates:
  - Indian mobile numbers

- Optional spacing/hyphens
- With/without country code

Features

- Real-time validation
- Descriptive error messages
- Integration with main registration form
- Cross-browser compatibility

Testing Scenarios

1. Valid email formats
2. Invalid email formats
3. Valid phone numbers
4. Invalid phone numbers
5. Edge cases handling

Integration

- Works with Experiment 6's HTML form
- Complements Experiment 7's name/password validation
- Combined validation on form submission