

Honors Capstone by
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QuickApply

A Modern Rental Application.

Introduction

- Current process: email or non-standardized online form
 - Inefficient and easy to make errors for renters
 - Inefficient and unorganized storage of renter information for landlords
 - Most current forms are not accessible for all users
- QuickApply: streamlined rental application process
 - Ensures error-free applications
 - Landlord dashboard of all submitted applications
 - Focus on college students and landlords
- Project started in EECS 497

Iteration 1

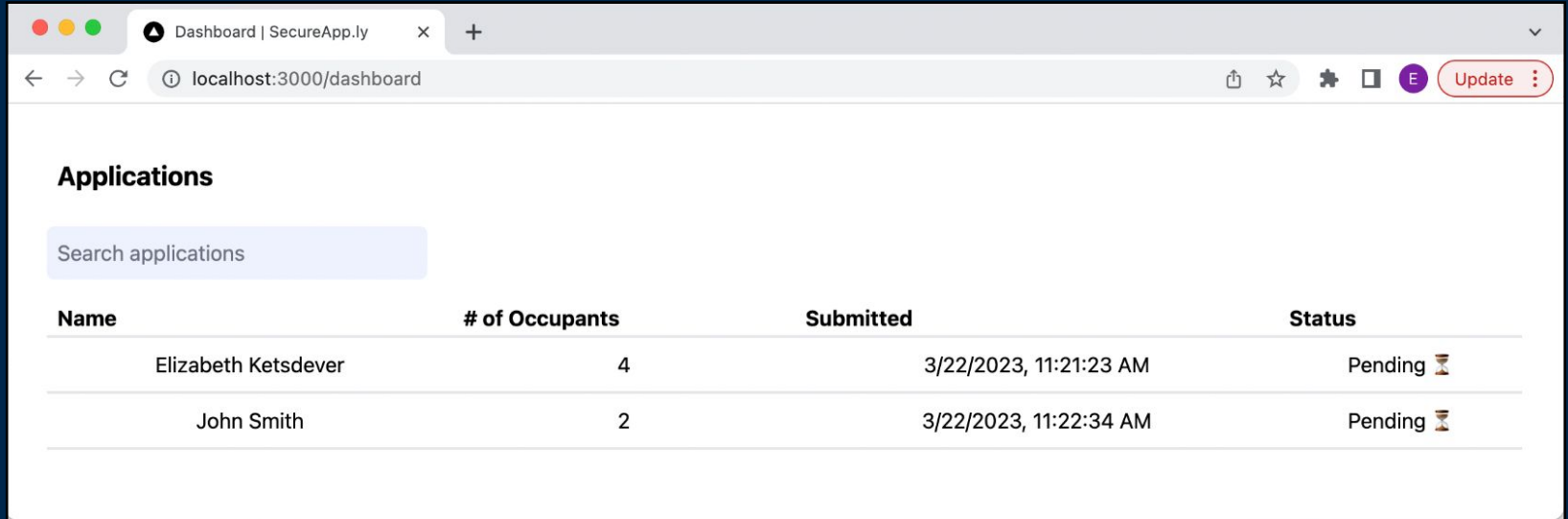
The screenshot shows a web browser window with the title "Apply | QuickApp.ly" and the URL "localhost:3000/apply". The page content includes a section titled "Property Information" with a sub-header "Please enter the information for the property you are applying for." The form fields are:

- Street address**: "123 Ann Arbor Drive" (with a note: "Include unit number if applicable.")
- City**: "Ann Arbor"
- State**: "Michigan"
- ZIP / Postal code**: "48104"
- Monthly Rent**: "\$ 1000" (with an information icon)

An "Update" button is visible in the top right corner of the browser window.

Simple application form.

Iteration 1

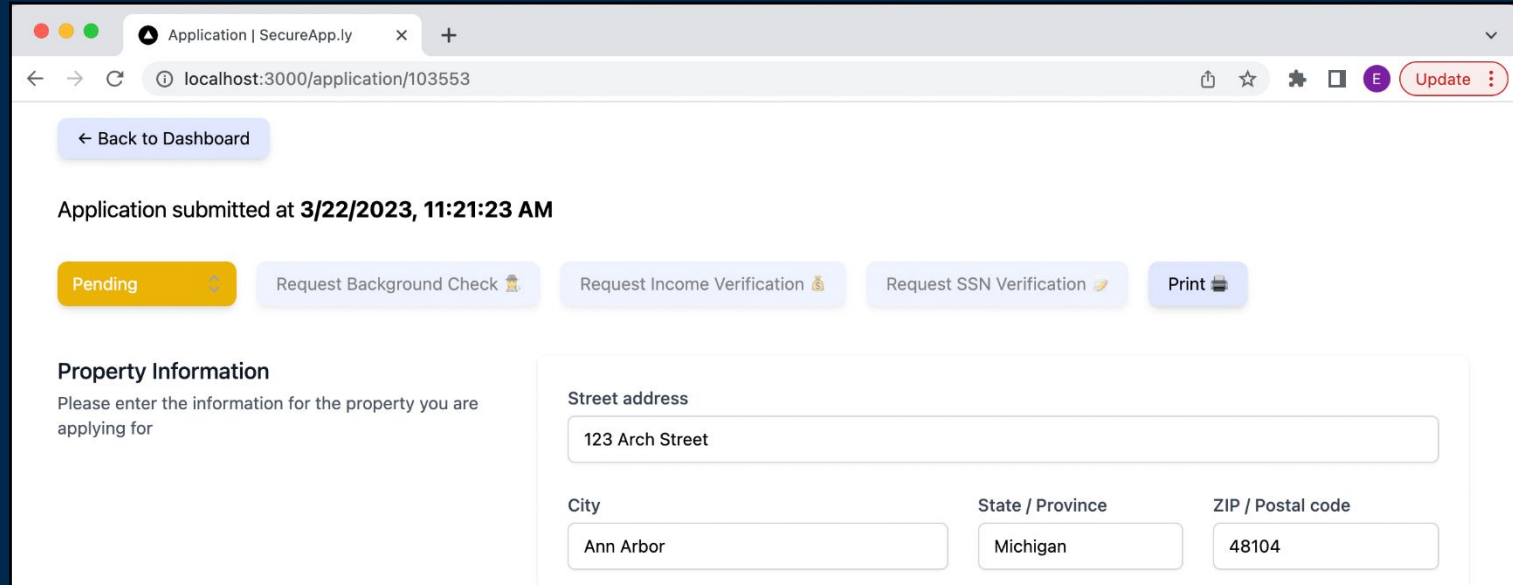


The screenshot shows a web browser window with the title "Dashboard | SecureApp.ly" and the URL "localhost:3000/dashboard". The page content includes a search bar labeled "Search applications" and a table with the following data:

Name	# of Occupants	Submitted	Status
Elizabeth Ketsdever	4	3/22/2023, 11:21:23 AM	Pending ⌚
John Smith	2	3/22/2023, 11:22:34 AM	Pending ⌚

Landlord dashboard.

Iteration 1



Landlord single application view.

Iteration 1 User Testing

Requirement	User Type	Importance (1-5)	Satisfaction (1-5)
Fill out an application	R	4.8	2.9
Submit an application	R	4.7	3.1
View a single application	L	4.7	3.1
See an organized view of all applications	L	4.6	2.4
Application Status	L	3	4.3
Automated background and SSN checks	L	2.6	2.8

- Make form easier to understand and help prevent errors
- Focus on college landlords
- Adjust dashboard to layout reflective of real-world storage

Iteration 2

Email address

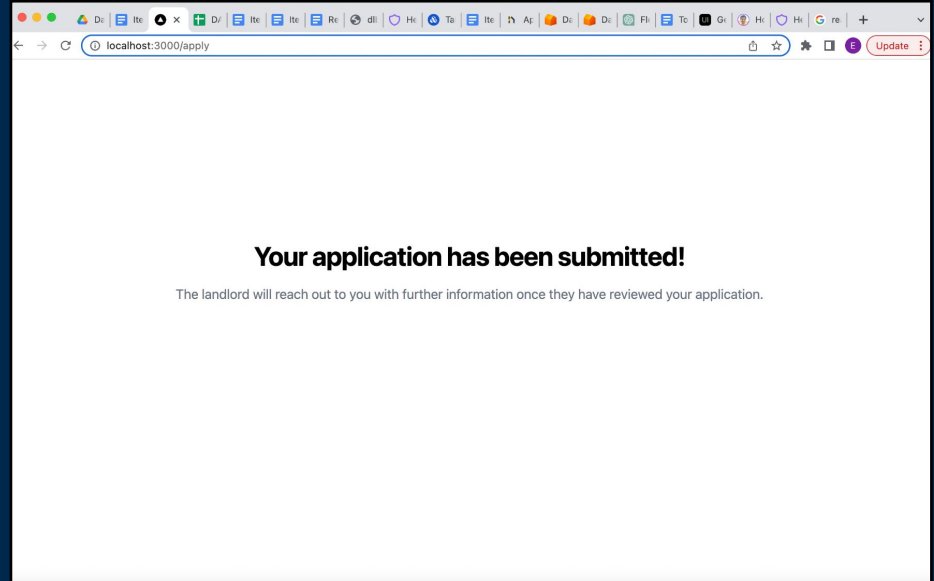
Please enter a valid email address.

Enter the total rent for entire unit

Monthly Rent ⓘ

Last name

⚠ Please fill out this field.



Error validation and added information.

Iteration 2

Parent and Landlord Information

Enter information for your parent or guardian, current address, and current landlord. If you live in a dormitory, you may leave landlord blank.

Parent Name

Parent Phone Number

Parent Email Address

Current Landlord Name

Landlord Email Address

Current Street Address

City

State

ZIP / Postal code

College-specific form sections.

Iteration 2

All Applications

Search applications

123 Arch Street

Name	Email	Submitted	Status
Elizabeth Kate	rketsdev@umich.edu	13 minutes ago	Pending 🕒

123 Ann Arbor Road

Name	Email	Submitted	Status
John Smith	jsmith@gmail.com	13 minutes ago	Approved ✅
Jake Brown	jbrown@yahoo.com	14 minutes ago	Approved ✅

111 Packard Street

Name	Email	Submitted	Status
Emma Smith	esmith@umich.edu	3 days ago	Rejected ❌

Organized landlord dashboard.

Iteration 2 User Testing

Requirement	User Type	Importance (1-5)	Satisfaction (1-5)
Fill out an application	R	4.8	4.2
Submit an application	R	4.7	4.8
View a single application	L	4.6	4.1
See an organized view of all applications	L	4.6	4
Application Status	L	2.7	4.8
Collect information necessary to screen applicants	L	4.5	2.7

- Welcome screen with properties
- Form customization options for landlords
- Automated emails

Iteration 2 Accessibility Testing

	Application	Dashboard
Correct use of headlines	1.5	4.5
Proper alt text for images	2	5
Links have unique & descriptive names	5	5
Careful use of color	4.5	4
Forms designed for accessibility	5	4
Use of tables for tabular data not layout	4.5	1.5
Logical flow of keyboard accessibility	4	2.5
Thoughtful use of ARIA roles	3.5	2.5
Accessibility of dynamic content	5	5

- Add Aria labels and roles
- Change table formatting on landlord dashboard
- Alt text on images

Iteration 3

Welcome to QuickApply.

Please select the correct application property to proceed

123 Arch Street

100 Oakland Avenue

111 Packard Street

123 Ann Arbor Road

123 Arch Street ✓

808 Packard Street

999 Hill Street

Welcome Screen.

Iteration 3

[← Back to Dashboard](#)

Landlord Settings

Property and Application Details.

Rental Company Name	Michigan Rental
Email Address	michiganrental@umich.edu
Optional Application Sections	Parent Information <input checked="" type="checkbox"/>
	Current Landlord Information <input type="checkbox"/>
	Extra House and Financial Information <input type="checkbox"/>

Properties

- 1211 Roosevelt Ave, Ann Arbor MI
- 1705 Hill St, Ann Arbor MI

Landlord Settings Page.

Final User Testing

	Renters		Landlords	
	Old System	QuickApply	Old System	QuickApply
Efficiency	2.75	4.25	3.5	3.625
Ease of use	3.125	4.25	3.25	3.625
Effectiveness	4.375	4.625	4.5	4.25
Overall satisfaction	2.875	4.25	3.125	3.875

- All categories improved except landlord effectiveness
- Landlord effectiveness: want complete customization
- Overall both user groups more satisfied with QuickApply than current system

Acknowledgements

Thank you to Professor Ringenberg, my EECS 497 team partners, and everyone who has helped with QuickApply.