



RESTORATION MUSE

Tablet Application Design

APPLICATION REPORT

Restoration Muse

By Elisha Dorsey

Description

Restoration Muse is a specimen restoration and conservation application which is updated on a daily basis.

Restoration Muse is THE MOST POPULAR conservation and restoration app specifically designed for the tablet. All of your institutions collections, exhibits and specimens are digitally archived and are accessible by your entire support staff with one single tap.

Features

- Artifact profile cataloging system
- Sketchpad feature
- Restoration alarm system
- Reminders plug-in

Converse our history. Catalog all your artifacts and collections with Restoration Muse.

Version 1.0

PRIMARY RESEARCH

User Interviews

In addition to content analysis, interviews and focus group research methods were conducted to acquire primary data regarding user experience and interface for Restoration Muse.

Respondents were randomly selected, with varying experience levels with the specimen restoration/conservation industry.

Based on market research, respondents were generally pleased with the idea of this kind of app.

Each respondent is represented below with their comments fully disclosed along with demographic information.



Catherine Sease

| | |
|----------|----------------------------------|
| Sex | Female |
| Age | 64 |
| Race | White |
| Job | Senior Conservator, Yale Peabody |
| Class | Upper Middle |
| Hometown | Cheshire, CT |

Catherine is a Senior Conservator at the Yale Peabody Museum of Natural History. She was excited about the development of an app that could help her and her staff with their job responsibilities.

Please see her comments and observations are below:

- Museum/gallery conservators are involved in the care, maintenance and conservation of historical and cultural artefacts which are owned by, and displayed in, museums and galleries.
- Some conservators focus their efforts on preserving and restoring a broad range of artifacts, using their knowledge, skills and experience of handling different types of collections.
- Other conservators specialize in the restoration of particular artifacts, such as archaeological findings, paintings, sculptures, weapons, lithographs, books, photographs, tapestries and ceramics.
- The primary responsibility of conservators is to apply approved scientific and technical methods to maintain the environment where the artefacts are kept and exhibited. This involves providing artefacts with optimal light, temperature, humidity and pressure levels.
- Moreover, these professionals will conduct hands-on restoration activities. Firstly, this process involves the inspection and analysis of artefacts using state-of-the-art equipment, such as X-ray machines and microscopes. They also be maintaining detailed records of decay and the extent to which the artefacts have suffered damage.
- In order to be a successful conservator, you need to keep your skills up to date and practise the most modern conservation procedures and restoration techniques.
- Conservators also conduct research-based activities and provide information about museum collections to the public through guided tours, workshops and other events.

PERSONA DEVELOPMENT

Personas For Restoration Muse

Denotatively speaking, a persona is the aspect of someone's character that is presented to or perceived by others.

When designing for mobile interactive applications as well as user experience and user interface projects, the persona is an artifact that provides specific insight, characteristics, demographics and behavioral information in order to enhance the users experience with a particular brand and/or product.

Here are the consumer types we envision as app users.

CATHERINE S.

SENIOR CONSERVATOR

"IT'S ALL ABOUT THE ENVIRONMENT IN WHICH WE KEEP OUR COLLECTIONS...MY JOB IS TO PROTECT AND CONSERVE OUR HISTORY."

BIOGRAPHY

DEMOGRAPHICS

| | |
|------------|-----------------------|
| Sex | Female |
| Race | White |
| Age | 48 |
| Occupation | Senior Conservator |
| Salary | 75 K |
| Residence | Cheshire, Connecticut |

BACKGROUND INFORMATION

Catherine cares for the Yale Peabody Museum's cultural collections by applying scientific methods to preserve and restore artefacts. Her work mainly involves monitoring and controlling the environment in which collections are stored or displayed to prevent deterioration. She also restores individual objects directly.

Catherine's typical work activities include:

- Maintaining full conservation records by writing up notes on the object's condition and any previous restoration work that has been done
- Producing a visual records of objects for identification purposes and to illustrate their condition
- Monitoring and recording display and storage conditions in order to keep objects in stable conditions
- Proposing and estimating costs of conservation
- Organizing the logistics of long-term projects and collaborating with other conservators

PERSONALITY

Introversion (I) - Catherine tends to be quiet and reserved. She prefers interacting with a few close friends and they expend energy in social situations.

Sensing (S) - Catherine tends to be more concrete than abstract. She focuses her attention on the details rather than the big picture, and on immediate realities rather than future possibilities.

Feeling (F) - Catherine tends to value personal considerations above objective criteria. When making decisions, Diane often gives more weight to social implications than to logic.

Perception (P) - Catherine tends to withhold judgment and delay important decisions, preferring to "keep her options open" should circumstances change.



Openness



Neuroticism

**The observations above are taken from personality test results completed by user. The tests include the Myers-Briggs Type Indicator (MBTI) and Five Factor Model (FFM).*

TECHNOLOGY

EXPERTISE LEVEL



USER EXPERIENCE GOALS

- Simple navigation
- Helpful
- Aesthetics
- Speed

DEVICES & PLATFORMS

- a. - -
- b. -
- c. -

USER INTERFACE NEEDS

- Collection catalog/database
- Sketch pad feature
- Note pad feature
- Upload PDFs & other forms
- Camera/Pictures
- Reminders
- Date of restoration
- Sharing with team members

TIMOTHY W. DIRECTOR OF COLLECTIONS

“MY TIME IS PRECIOUS...I MUST BE AVAILABLE TO MULTIPLE DEPARTMENTS AND KEPT UPDATED ON ALL PIECES & COLLECTIONS”

BIOGRAPHY

DEMOGRAPHICS

| | |
|-------------------|----------------------------------|
| Sex | Male |
| Race | White |
| Age | 60 |
| Occupation | Dir. of Collections & Operations |
| Salary | 85 K |
| Residence | Hamden, Connecticut |

BACKGROUND INFORMATION

Timothy oversees and manages all collections and operation for the Yale Peabody Museum. He ensures that objects are properly cared for and manages storage, conservation and record-keeping associated with objects.

Timothy is also involved in developing policies and standards for acquiring and disposing of objects. These set out what objects the museum wants to collect, how it intends to collect them and why and how it might dispose of objects.

Timothy ensures high standards of care from acquisition to conservation to display and uses information technology and events to make collections accessible to a wide range of audiences.

Collections are available to legitimate researchers for scholarly use. Loans are issued to responsible individuals at established institutions. Loans and access to the collection can be arranged through Timothy.

PERSONALITY

Extraversion (E) - Timothy is motivated by interaction with people. He tends to enjoy a wide circle of acquaintances, and gains energy in social situations.

Intuition (N) - Timothy has an abstract thought process; he focuses on the big picture and future possibilities rather than immediate realities.

Feeling (F) - Timothy tends to value personal considerations above objective criteria. He gives more weight to social implications than to logic when decision-making

Judgement (J) - Timothy tends to plan personal activities and he makes decisions early, deriving a sense of control through predictability.



Openness



Neuroticism

**The observations above are taken from personality test results completed by user. The tests include the Myers-Briggs Type Indicator (MBTI) and Five Factor Model (FFM).*

TECHNOLOGY

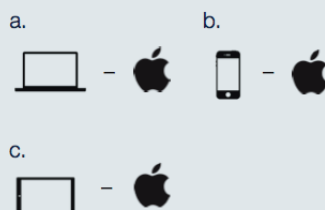
EXPERTISE LEVEL



USER EXPERIENCE GOALS

- Simple navigation
- Informative
- Speed
- No excessive scrolling
- Accessibility

DEVICES & PLATFORMS



USER INTERFACE NEEDS

- Collection catalog/database
- Search feature
- Note pad feature
- Reminders
- Date of restoration
- Sharing with team members
- View team member updates
- Assess artifact/collection
- Artifacts facts at-a-glance
- Desktop app compatibility

SKETCHES & NOTES

New Project: Mobile Interactive Design

Deadline: May 7th

Notes:

At Taxidermy App

- 3/19 —
- 3/26 —
- 4/2 —
- 4/9 —
- 4/16 —
- 4/23 —
- 4/30 —
- 5/7 —

Concept + Research
 User research
 Personas
 Functionality - limits

innovation + creativity



Specific features for tablet

- Audience: Museums / Institutions

- Taxidermy specimens (conservation & care)

- think uncommon

- tablet app

- functionality

... exclamation

measure movement...

what is this capable of?

... gestures, gestural interfaces etc.

* Notes on App Concept:

- Catalog taxidermy pieces in museum
 → last date of restoration
- forum - museums to suggest / list credible taxidermy restoration services
 - showcase their pieces
 - ready opportunities to
- Search for taxidermy pieces (using tags)
 - * data from database that is not dependent on users of the app ??? (Possible???)

- restoration date - reminder / alarm of page.



Diagrams or notes on the piece → common reading notes.

Resources of Tablet

App design — Unstuck

Ideas

1 - Taxidermy App

2 - Service Project App

* for particular program

- share video updates

- journal

- what program offers

- donate to child

3 → Do you Qo every App

80 4 → Resident Journal App

60 5 → Channel 3 kids says App

→ show where money goes

→ child testimonials

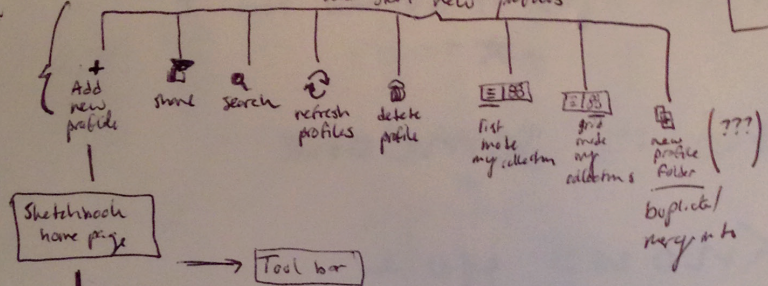
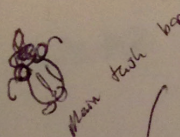
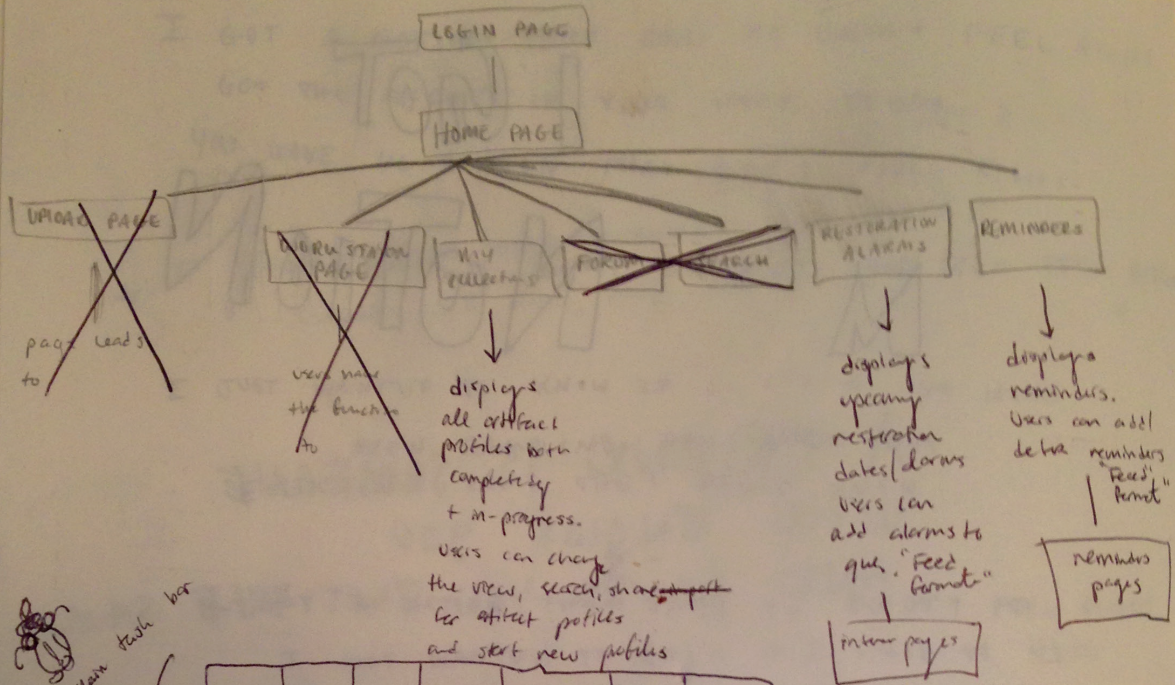
→ PayPal donation

6 → hachoe App ???

7. Blany Air Study

o CV / Resome
App
- Mo

A Useful, productive
creative, interacting,
NOT just passive
delivery of content.



Sketchbook home page

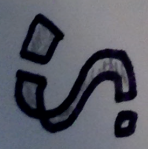
Tool bar

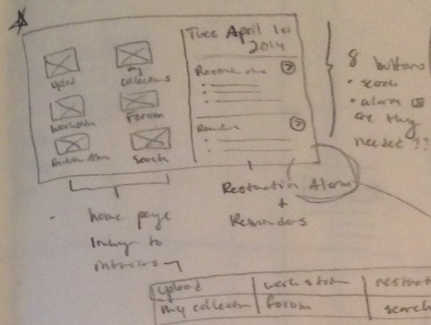
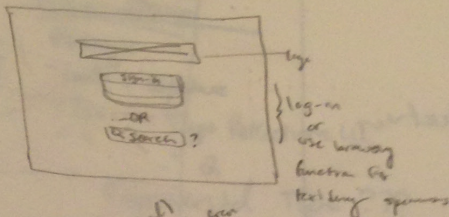
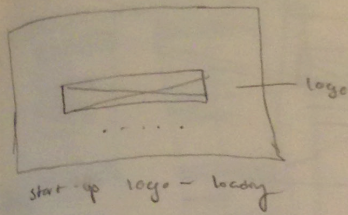
Task Bar

controls all task functions of the sketchpad. For example...

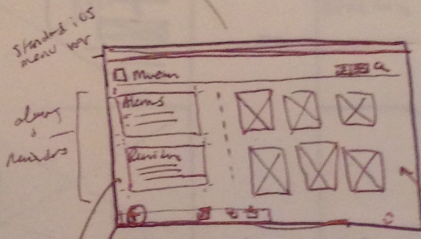
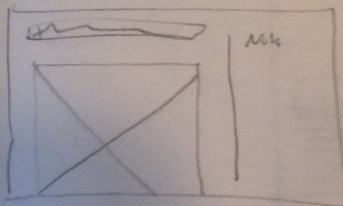
- Art same capabilities

controls all tools used and associated with the sketchpad, for example...

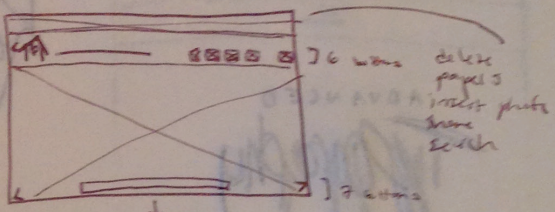




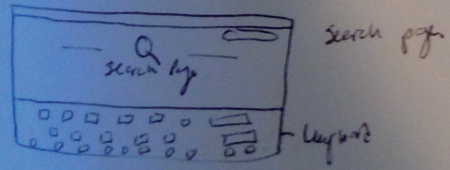
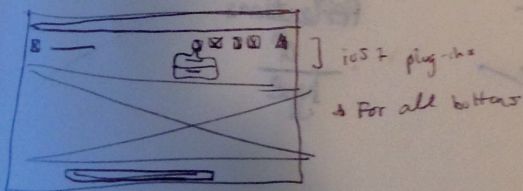
| | | |
|---------------|--------------|--------------------|
| upload | work station | restoration allows |
| my collection | forum | search |



Some page plug in. a time for add (restoration, items + reminders (???)



- Text tool
- pen tool
- marker tool
- Eraser tool
- cut/paste
- Free transform / Drag tool
- Voice memo tool



Questions/Notes

- how often do specimens need to be restored?
- foundation to provide funding for restoration, donations to org.s on forum.

institution etc → browsing not necessary?? Users will have active account(s).

- app orientation?
- * Army collections
 - forums
 - upload
 - restoration allows
 - web site, images, sketches, scanned photos, metadata etc. & features

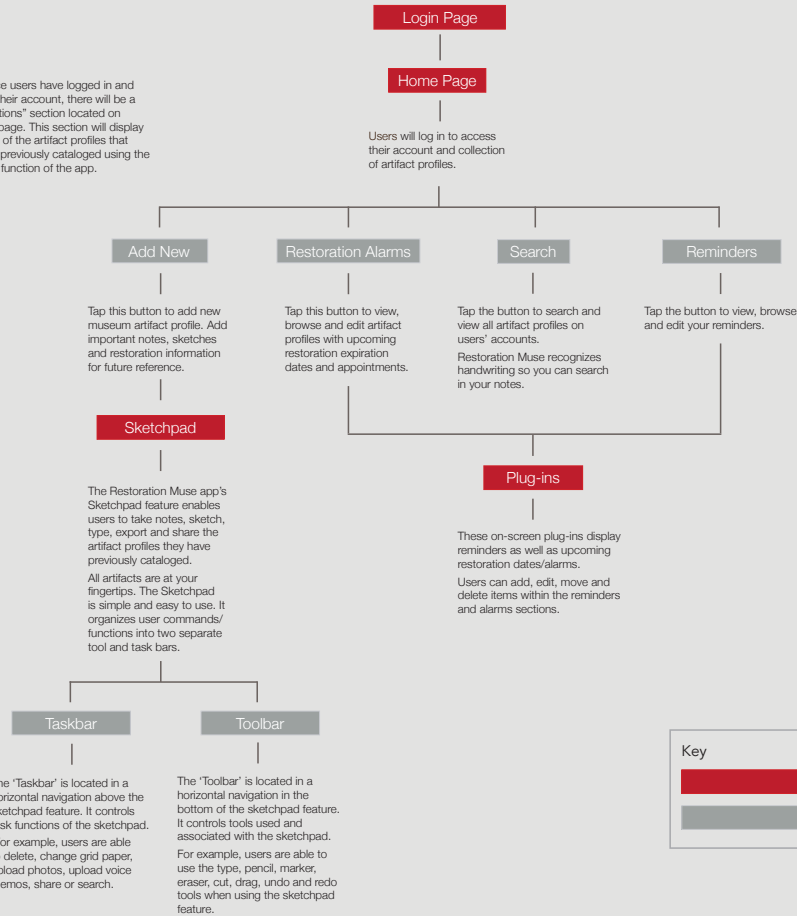
- How does: alarm clocks, reminders, calendar etc. look like the iPad?? or, should they remain over 70 years \$40 million or so month

INFORMATION ARCHITECTURE

RESTORATION MUSE

Information Architecture Presentation
Designed by Elisha Dorsey

*Note: Once users have logged in and accessed their account, there will be a "My Collections" section located on the Home page. This section will display thumbnails of the artifact profiles that have been previously cataloged using the sketchpad function of the app.



WIREFRAMES

RESTORATION MUSE

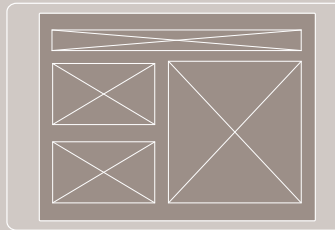
Wireframes Presentation
Designed by Elisha Dorsey

Login Page



Single tap the username and password fields to login in and access your account.

Home Page



Once users have logged in and accessed their account, there will be a "My Collections" section located on the Home page.

This section will display thumbnails of the artifact profiles that have been previously cataloged using the sketchpad function of the app.

Additionally, there will be "Restoration Alarms" and "Reminders" sections that users will be able to view.



Single tap the "Edit" button in the Restoration Alarms plug-in in order to view, browse and edit artifact profiles with upcoming restoration expiration dates and appointments.

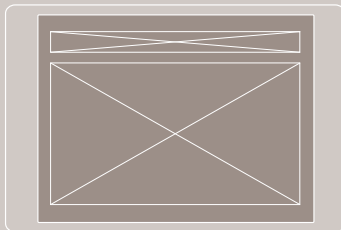


Single tap the "Edit" button in the Reminders plug-in in order to view, browse and edit your reminders.

*Note: These on-screen plug-ins display reminders as well as upcoming restoration dates/alarms.

Users can add, edit, move and delete items within the reminders and alarms sections.

Sketchpad Page



The Restoration Muse app's Sketchpad feature enables users to take notes, sketch, type, export and share the artifact profiles they have previously cataloged. All artifacts are at your fingertips. The Sketchpad is simple and easy to use. It organizes user commands/ functions into two separate tool and task bars.



Single tap icons in the "Taskbar" that is located in a horizontal navigation above the sketchpad feature. It controls task functions of the sketchpad.

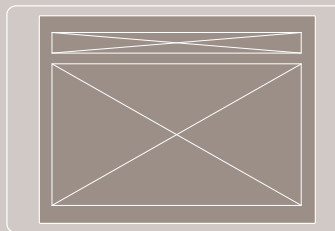
For example, users are able to delete, change grid paper, upload photos, upload voice memos, share or search.



Single tap icons in the "Toolbar" that is located in a horizontal navigation in the bottom of the sketchpad feature. It controls tools used and associated with the sketchpad.

For example, users are able to use the type, pencil, marker, eraser, cut, drag, undo and redo tools when using the sketchpad feature.

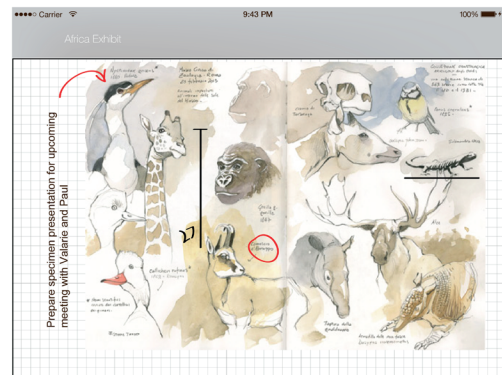
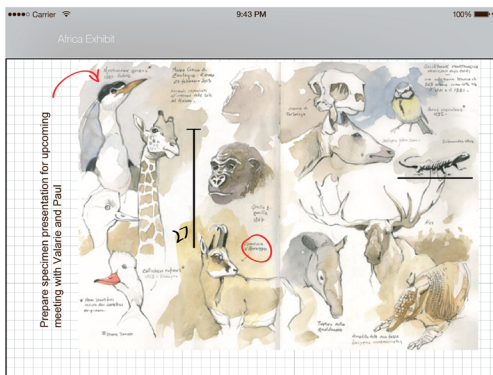
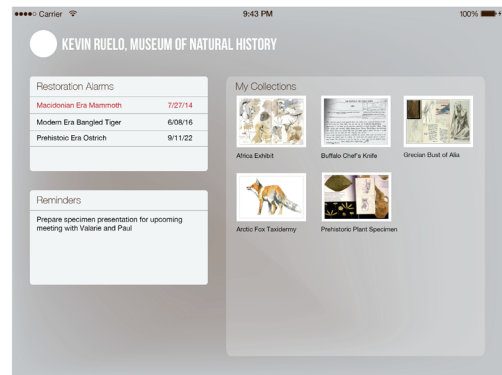
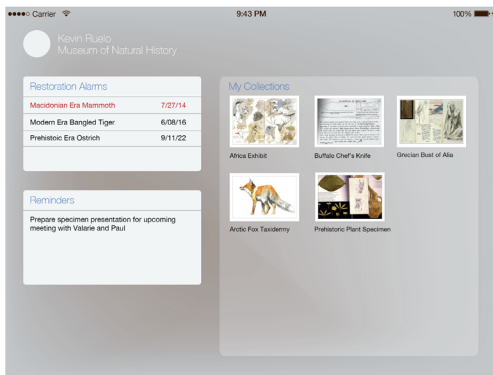
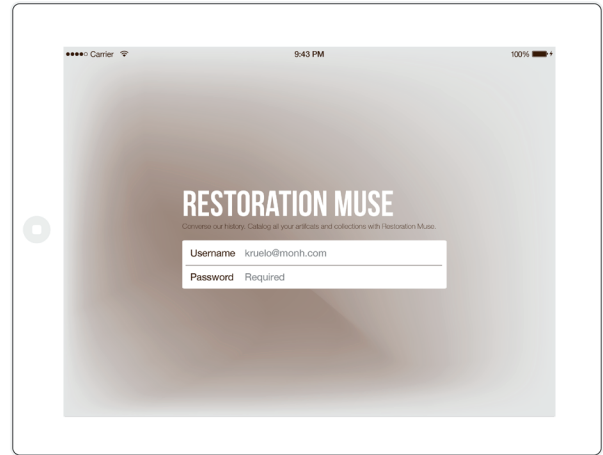
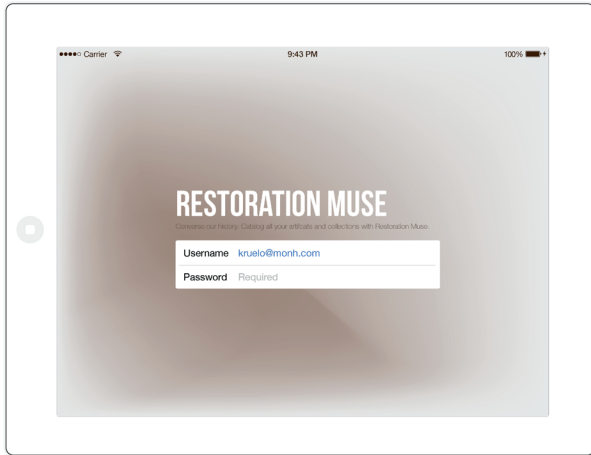
Search Page

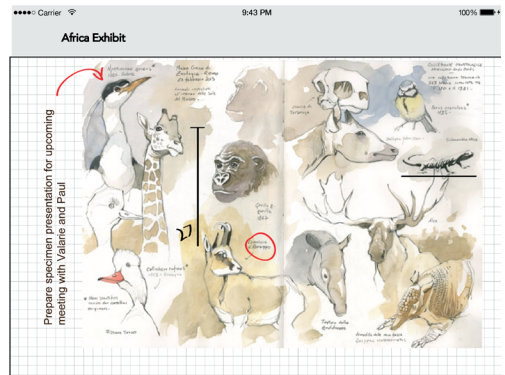
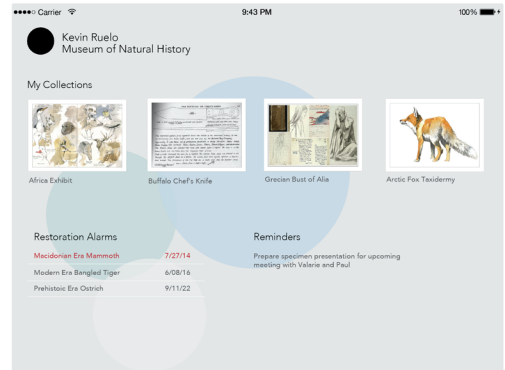
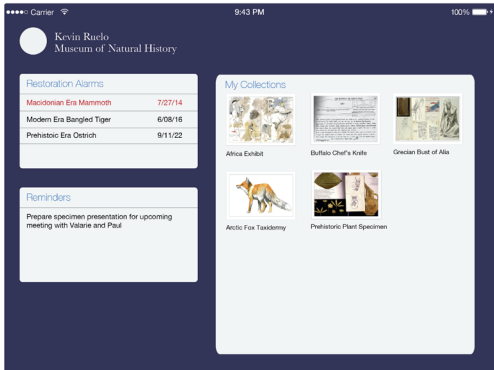
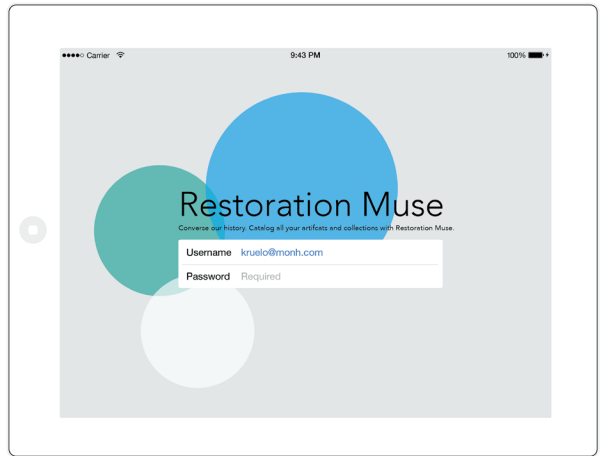
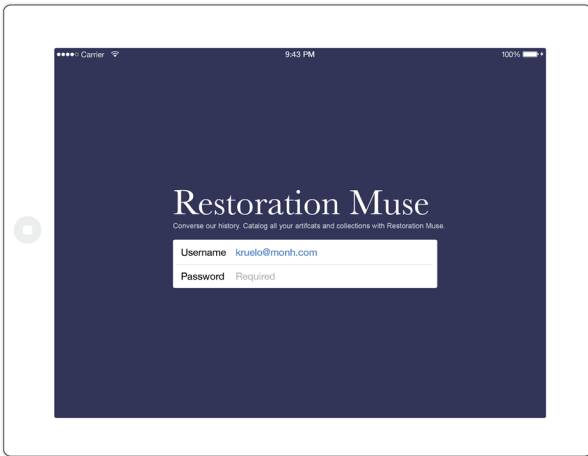


Single tap the "Search" button to search and view all artifact profiles on users' accounts.

Restoration Muse recognizes handwriting so you can search in your notes.

ROUGH UI COMPS





FINAL UI COMPS

RESTORATION MUSE

Converse our history. Catalog all your artifacts and collections with Restoration Muse.

Username Required

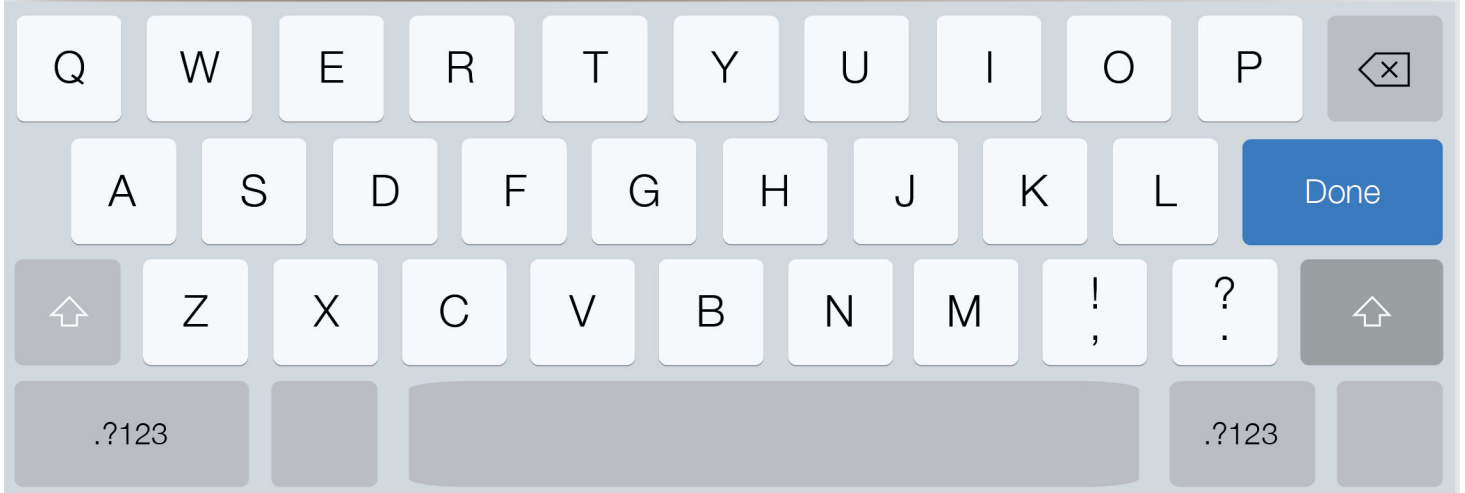
Password Required

RESTORATION MUSE

Converse our history. Catalog all your artifacts and collections with Restoration Muse.

Username

Password





KEVIN RUELO, MUSEUM OF NATURAL HISTORY



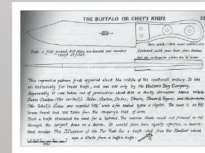
| | |
|--------------------------|----------------------|
| Restoration Alarms | Edit |
| Macdonian Era Mammoth | 7/27/14 |
| Modern Era Bangled Tiger | 6/08/16 |
| Prehistoric Era Ostrich | 9/11/22 |
| | |

| | |
|---|----------------------|
| Reminders | Edit |
| <input type="checkbox"/> Prepare specimen presentation for upcoming meeting with Valarie and Paul | |
| | |
| | |
| | |

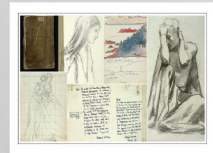
My Collections



Africa Exhibit



Buffalo Chef's Knife



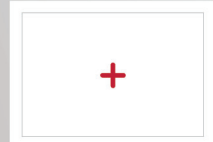
Grecian Bust of Alia



Arctic Fox Taxidermy



Prehistoric Plant Specimen





[NEW ARTIFACT]

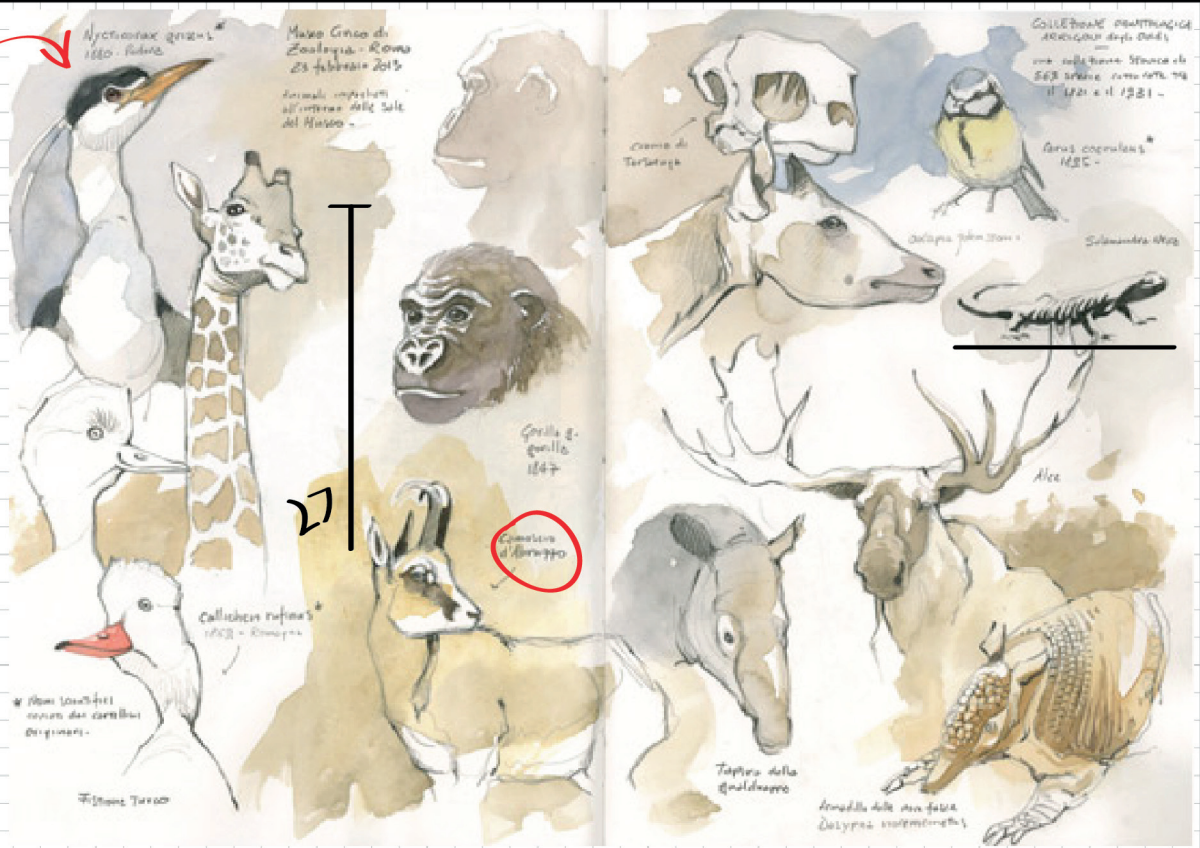




AFRICA EXHIBIT



Prepare specimen presentation for upcoming meeting with Valarie and Paul



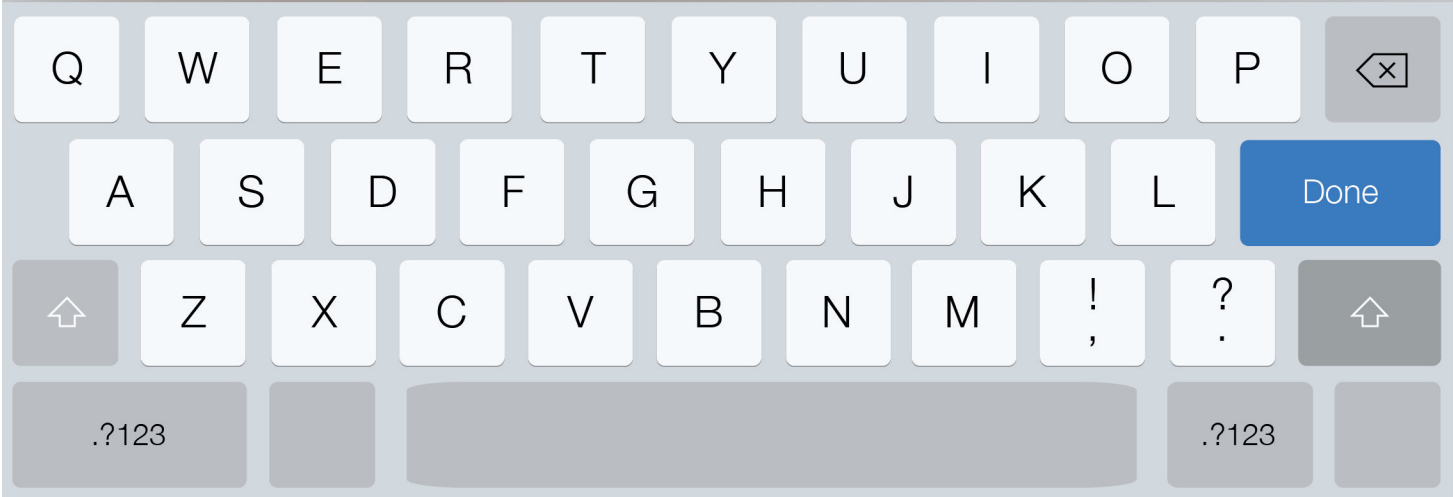


SEARCH YOUR NOTES

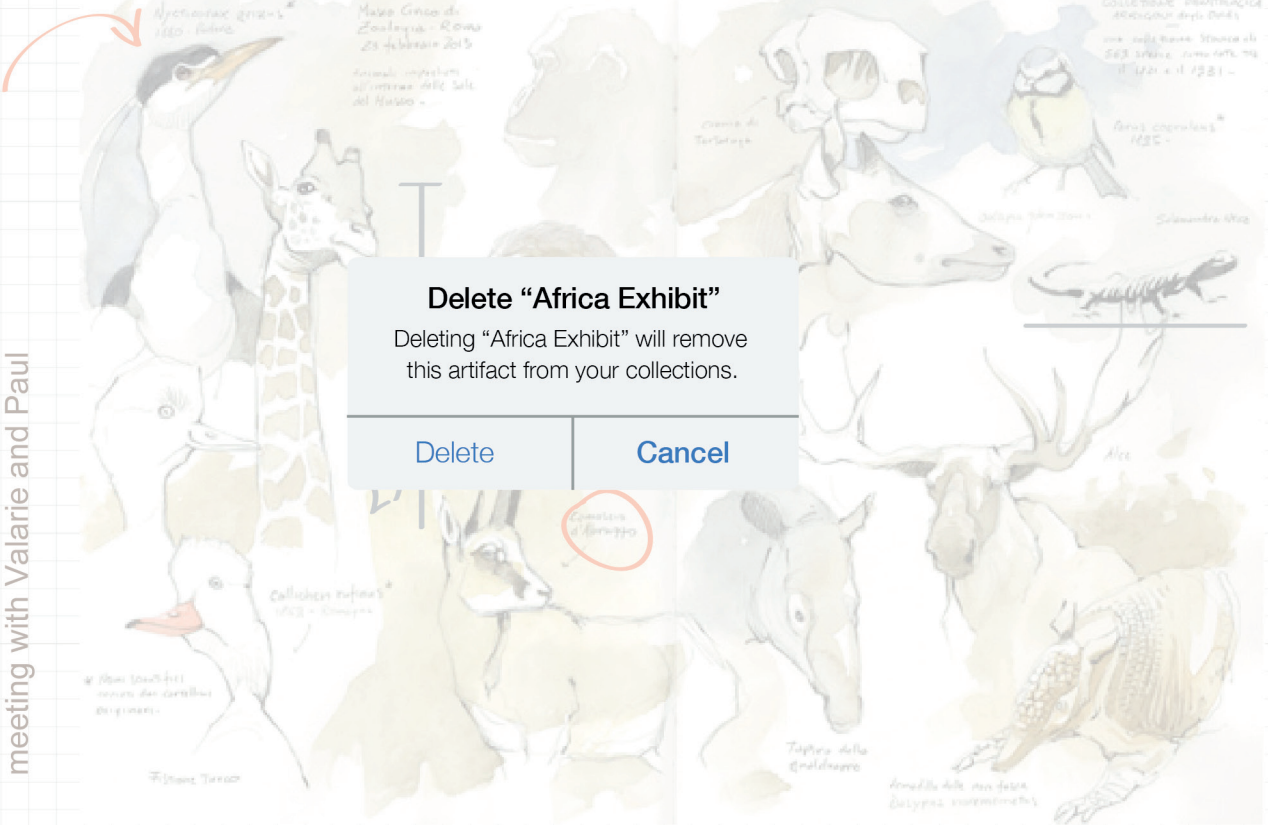
Cancel



Restoration Muse recognizes handwriting so you can search in your notes.



Prepare specimen presentation for upcoming meeting with Valarie and Paul



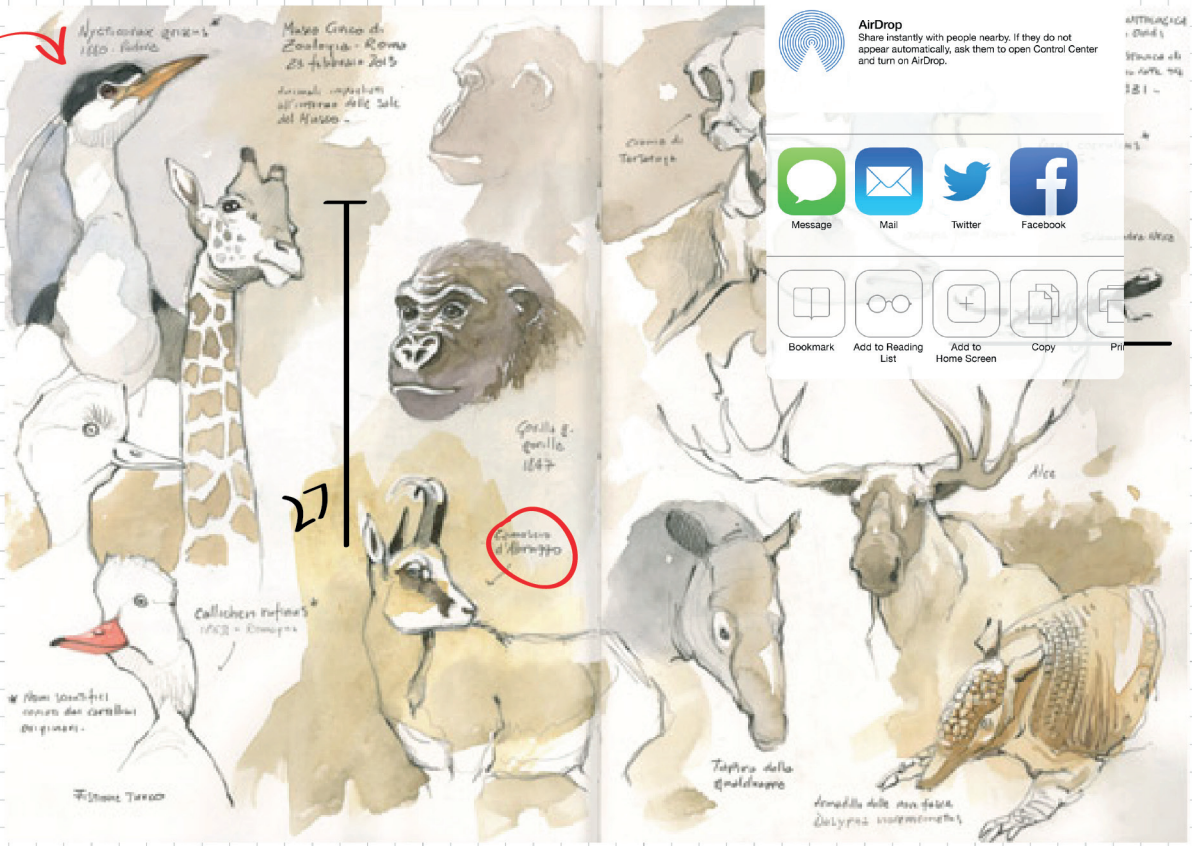
Delete "Africa Exhibit"
Deleting "Africa Exhibit" will remove this artifact from your collections.

Delete Cancel

🏠 AFRICA EXHIBIT



Prepare specimen presentation for upcoming meeting with Valarie and Paul



AirDrop
Share instantly with people nearby. If they do not appear automatically, ask them to open Control Center and turn on AirDrop.

Message Mail Twitter Facebook

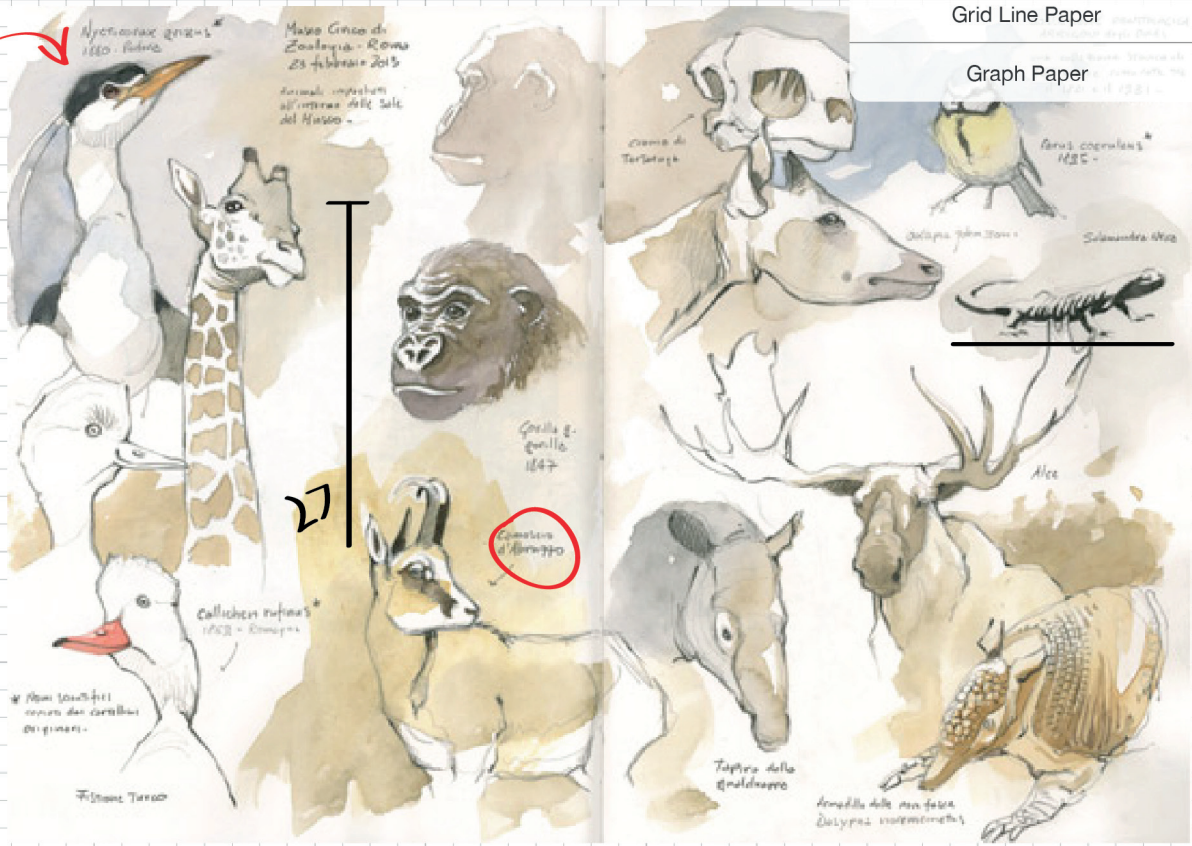
Bookmark Add to Reading List Add to Home Screen Copy Print



AFRICA EXHIBIT



Prepare specimen presentation for upcoming meeting with Valarie and Paul



Grid Line Paper
Graph Paper

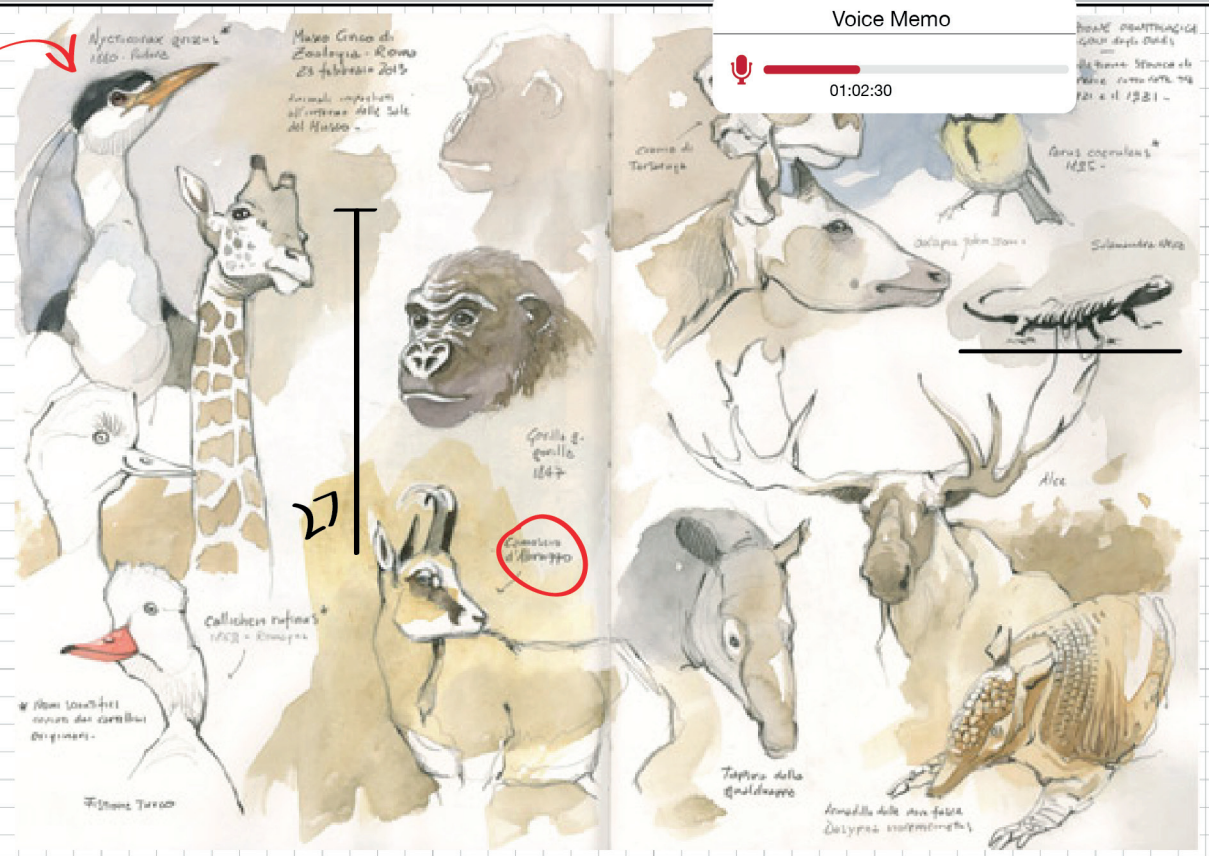


🏠 AFRICA EXHIBIT



Voice Memo
01:02:30

Prepare specimen presentation for upcoming meeting with Valarie and Paul





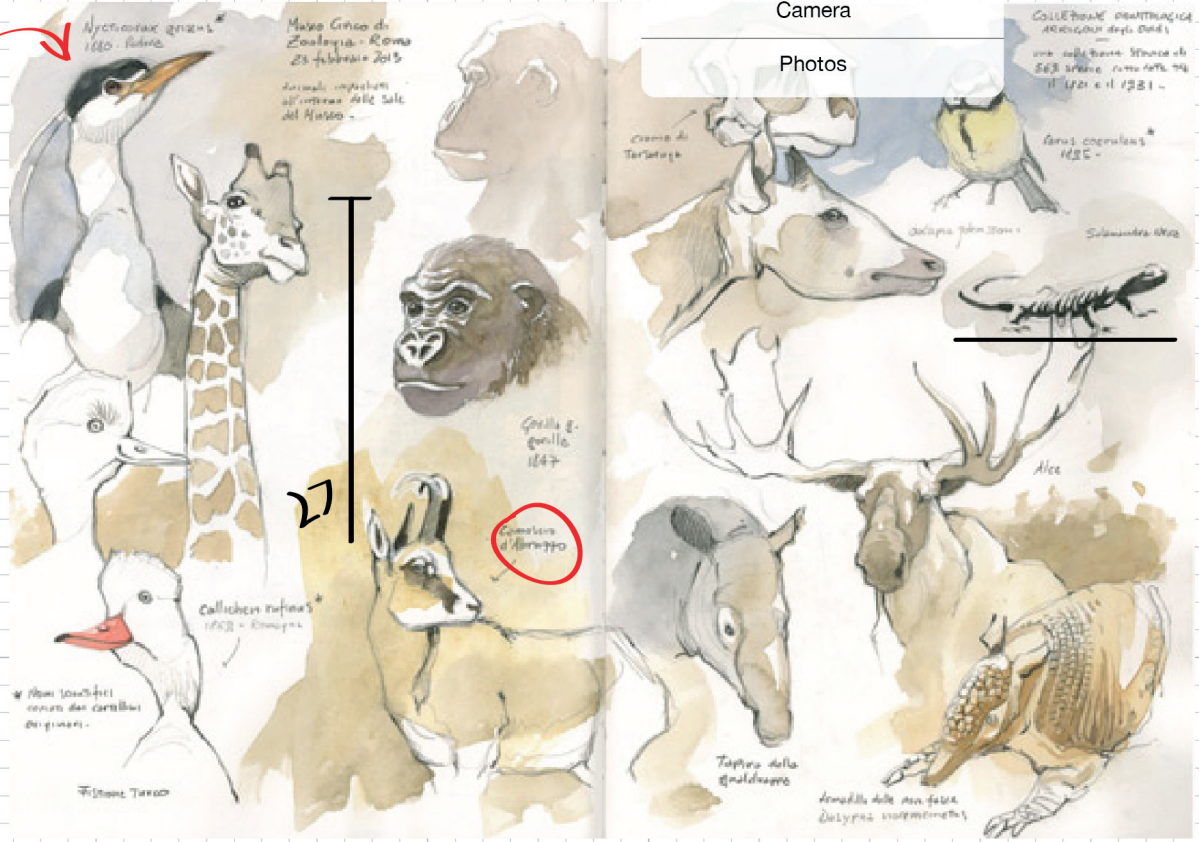
AFRICA EXHIBIT



Camera

Photos

Prepare specimen presentation for upcoming meeting with Valarie and Paul

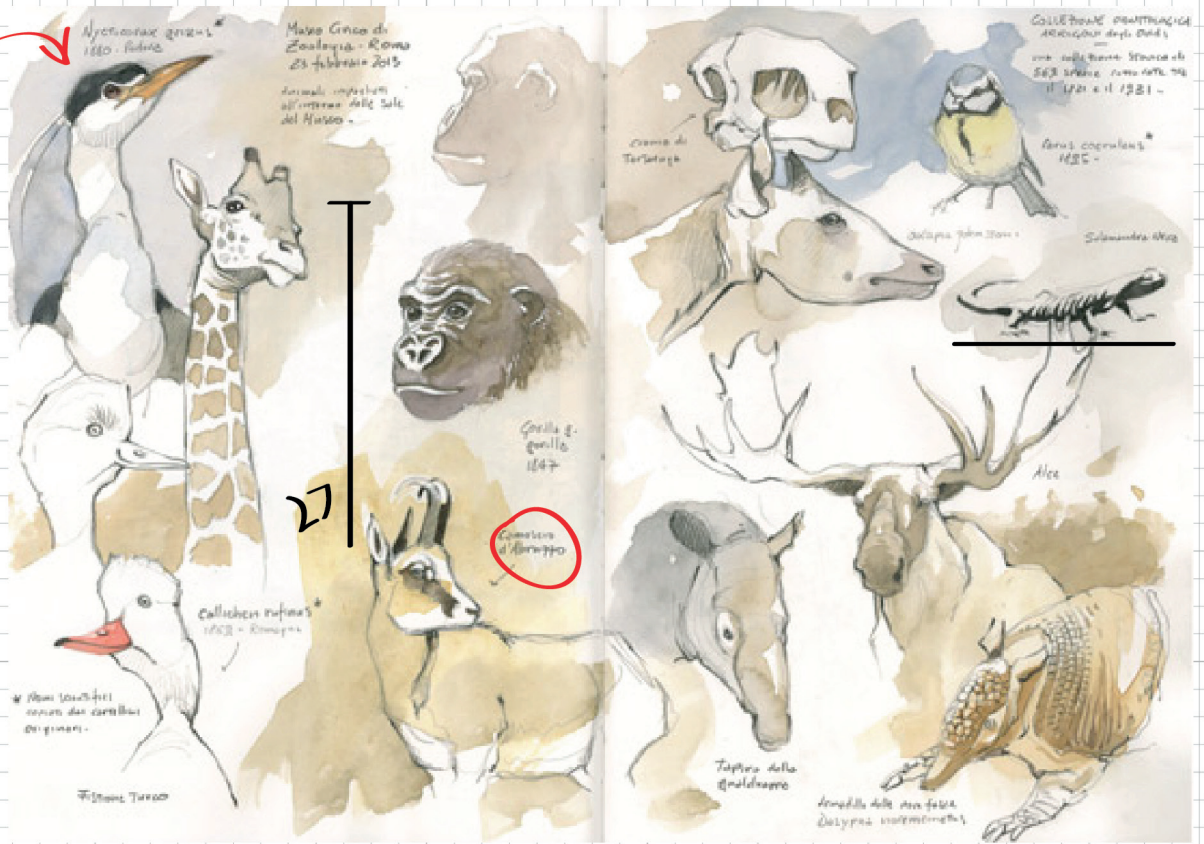




AFRICA EXHIBIT



Prepare specimen presentation for upcoming meeting with Valarie and Paul





KEVIN RUELO, MUSEUM OF NATURAL HISTORY



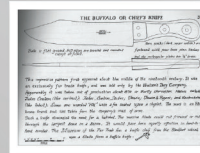
| Restoration Alarms | Done |
|--------------------------|---------|
| Macdonian Era Mammoth | 7/27/14 |
| Modern Era Bangled Tiger | 6/08/16 |
| Prehistoric Era Ostrich | 9/11/22 |
| | |

| Reminders | Done |
|--|------|
| Prepare specimen presentation for upcoming meeting with Valarie and Paul | |
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| | |

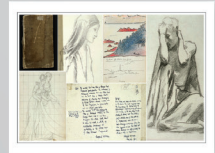
My Collections



Africa Exhibit



Buffalo Chef's Knife



Grecian Bust of Alia



Arctic Fox Taxidermy



Prehistoric Plant Specimen





KEVIN RUELO, MUSEUM OF NATURAL HISTORY



Restoration Alarms

Done

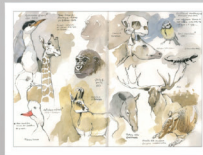
| | More | Delete |
|-------------------------|------|---------|
| Modern Era Banged Tiger | | 6/08/16 |
| Prehistoric Era Ostrich | | 9/11/22 |
| | | |
| | | |

Reminders

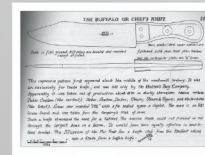
Done

| |
|--|
| Prepare specimen presentation for upcoming meeting with Valarie and Paul |
| |
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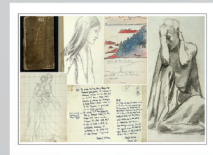
My Collections



Africa Exhibit



Buffalo Chef's Knife



Grecian Bust of Alia



Arctic Fox Taxidermy



Prehistoric Plant Specimen





Restoration Alarms

Done

Reminders

Done

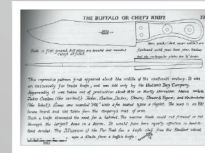
Prepare specimen presentation for upcoming meeting with Valarie and Paul

|

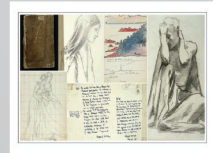
My Collections



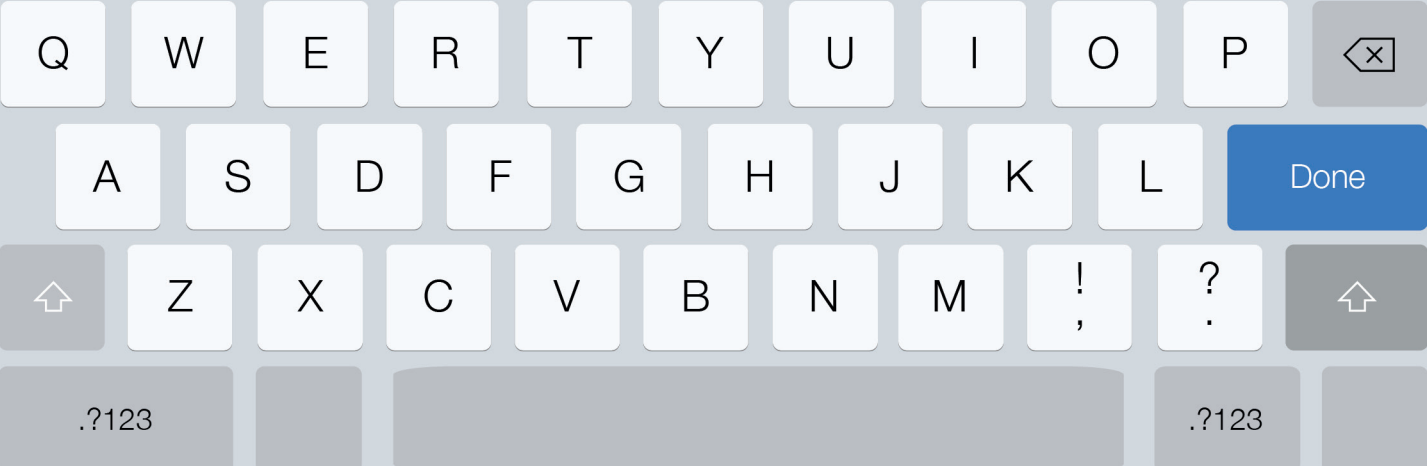
Africa Exhibit



Buffalo Chef's Knife



Grecian Bust of Alia



APPENDIX I

OFF-RAMP

Saturday Noon to 1:00 p.m. and Sunday 6:00 to 7:00 p.m.
with John Rabe

Off-Ramp for May 18, 2013

PHOTOS: A look inside the taxidermy lab at The Natural History Museum

Mukta Mohan | Off-Ramp | May 17th, 2013, 3:33pm



(<http://www.sepr.org/programs/offramp/2013/05/17/31832/science-meets-art-natural-history-museum-taxidermy/>)

Mae Ryan/KPCC

Taxidermist Allis Markham works on a female Cooper's hawk at the Natural History Museum on April 24th, 2013.

*The Natural History Museum is celebrating its 100th year this summer. They'll celebrate with two new exhibits, *Becoming LA* and *Nature Gardens* which will feature dozens of taxidermy animals including birds, possums, and cows.*

Off-Ramp's Mukta Mohan talked with taxidermist Allis Markham to find out what it's like behind the scenes at the museum and to learn about the art of taxidermy.

In the North American Mammal Hall at **The Natural History Museum** (<http://www.nhm.org/site/>), families gather around dioramas and watch rare animals in their natural habitats. There are jaguars, bison... even polar bears. But unlike at zoos where the animals roam around, all of the animals here are preserved and made to look alive through taxidermy. **Allis Markham** (<http://www.preytaxidermy.com/pages/about-prey>) is the newest member of the museum's taxidermy team.

Markham describes taxidermy as "science meets art." She says, "At the end of the day, we're artists. We're creating sculpture. It's model making. You're just working with this organic material that is essentially an animal."

On the fourth floor of the museum is a temperature controlled taxidermy lab with no windows—that keeps the skins from fading in the sunlight. Death masks line the walls. Thousands of reference photos lie in drawers, and a full-sized Corriente cow stands in the middle of the room.

All of the museum's animals either were donated or found dead in the wild by staff members like Markham. The space is cluttered with tools used for taxidermy — steel brushes, thread, glass eyes. Markham uses scalpels to skin animals and prepare them for mounting.

"I mean it's like the old phrase, 'there's more than one way to skin a cat,'" said Markham. "I can tell you first hand, that there is. There's several different



Smithsonian Taxidermist: A Dying Job Title

by NEDA ULABY

April 16, 2010 3:30 PM

Listen to the Story

All Things Considered

4 min 0 sec

Every natural history museum worth its stuffing used to have a whole crew of taxidermists working behind the scenes. And many of the animals now displayed in the National Museum of Natural History's spacious Hall of Mammals date from that era, many decades ago.

Paul Rhymer, the Smithsonian's last taxidermist, points to a panda crouching in a glass case.

"That mount's probably 80 or 100 years old," he says.



Rhymer's job tends toward repairing such mounts, especially when they're hard to find or endangered species like this venerable panda, which had been nearly falling to pieces.

"The black hair had faded. The white hair had yellowed from dust and dirt from back in the day when you could smoke in the museum, so we literally took ... bleach and bleached the white hair," Rhymer says. He dyed the black hair, remounted the animal

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Taxidermy Touchup: How to Restore a Natural History Museum

October 31, 2012 at 3:10:00 PM by Andrew Moseman | 0 Comments



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Nobody wants a blonde bison.

Okay, the American Museum of Natural History's problem wasn't quite that bad. But according to Ross MacPhee, a curator and former chairman of the department of mammalogy at the museum, the mammal specimens had become a faded version of their former selves. Back in 1942, when the North American mammals wing opened at AMNH, it used lights that shone partly in the UV spectrum, MacPhee says, and UV is destructive to the color in the fur of the taxidermed animals. "The lights basically burnt the pigments out of the fur," he said. For example, here's what the bison looked like before restoration; compare it to the restored version seen above.

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