

Request for Proposals Tracking Application

A web application for CES Planners to track
RFPs

At a High Level, What Does the App do?

Organization

- Centralized database to hold all necessary information to carry out the life of an RFP

Automation

- Backend to automate emailing and speed up the RFP building process

Visualization

- Website to display data in a logical fashion

Database

Use PostgreSQL, an open source object-relational database system

```

20
21 class Event(models.Model):
22
23     # These are the choices for the field attendee_or_master."
24     ATTENDEE_PAID = 'AP'
25     MASTERBILLED = 'MB'
26     MIX = 'AM'
27
28     PAYMENT_CHOICES = [
29         (ATTENDEE_PAID, "Attendee Paid"),
30         (MASTERBILLED, "Masterbilled"),
31         (MIX, "Mix of Masterbilled and Attendee Paid"),
32     ]
33
34     name = models.CharField(max_length=200)
35     planners = models.ManyToManyField(Planner)
36     attendee_estimate = models.CharField(max_length=10)
37
38     attendee_or_master = models.CharField(
39         max_length=200,
40         choices = PAYMENT_CHOICES,
41         default = ATTENDEE_PAID,
42     )
43
44     notes = models.CharField(max_length=200)
45     # Allow planners to upload event contract
46     # contract = models.FilePathField()

```

```

54
55 class RFP(models.Model):
56     # These are the choices for the field rfp_type.
57     HOTEL = 'HT'
58     CATERING = 'CA'
59     EVENT_SPACE = 'ES'
60
61     RFP_TYPE_CHOICES = [
62         (HOTEL, 'Hotel'),
63         (CATERING, 'Catering'),
64         (EVENT_SPACE, 'Event Space'),
65     ]
66
67     # These are the choices for the field status.
68     DRAFT = 'DR'
69     AWAITING_PROPOSALS = 'AP'
70     AWAITING_REVIEW = 'AR'
71     AWAITING_APPROVAL = 'AA'
72     APPROVED = 'AV'
73
74     RFP_STATUS_CHOICES = [
75         (DRAFT, 'Draft'),
76         (AWAITING_PROPOSALS, 'Awaiting Proposals'),
77         (AWAITING_REVIEW, 'Awaiting Review'),
78         (AWAITING_APPROVAL, 'Awaiting Approval'),
79         (APPROVED, 'Approved'),
80     ]
81
82     title = models.CharField(max_length=200)
83     event = models.ForeignKey(
84         Event,
85         related_name = 'rfps',
86         on_delete=models.CASCADE
87     )
88     planners = models.ManyToManyField(Planner)
89     rfp_type = models.CharField(
90         max_length=5,
91         choices=RFP_TYPE_CHOICES,
92         default=HOTEL,
93     )
94     status = models.CharField(
95         max_length=10,
96         choices=RFP_STATUS_CHOICES,
97         default=DRAFT,
98     )
99
100     deadline = models.DateTimeField()
101     description = models.CharField(max_length=1000)
102     details = models.JSONField()

```

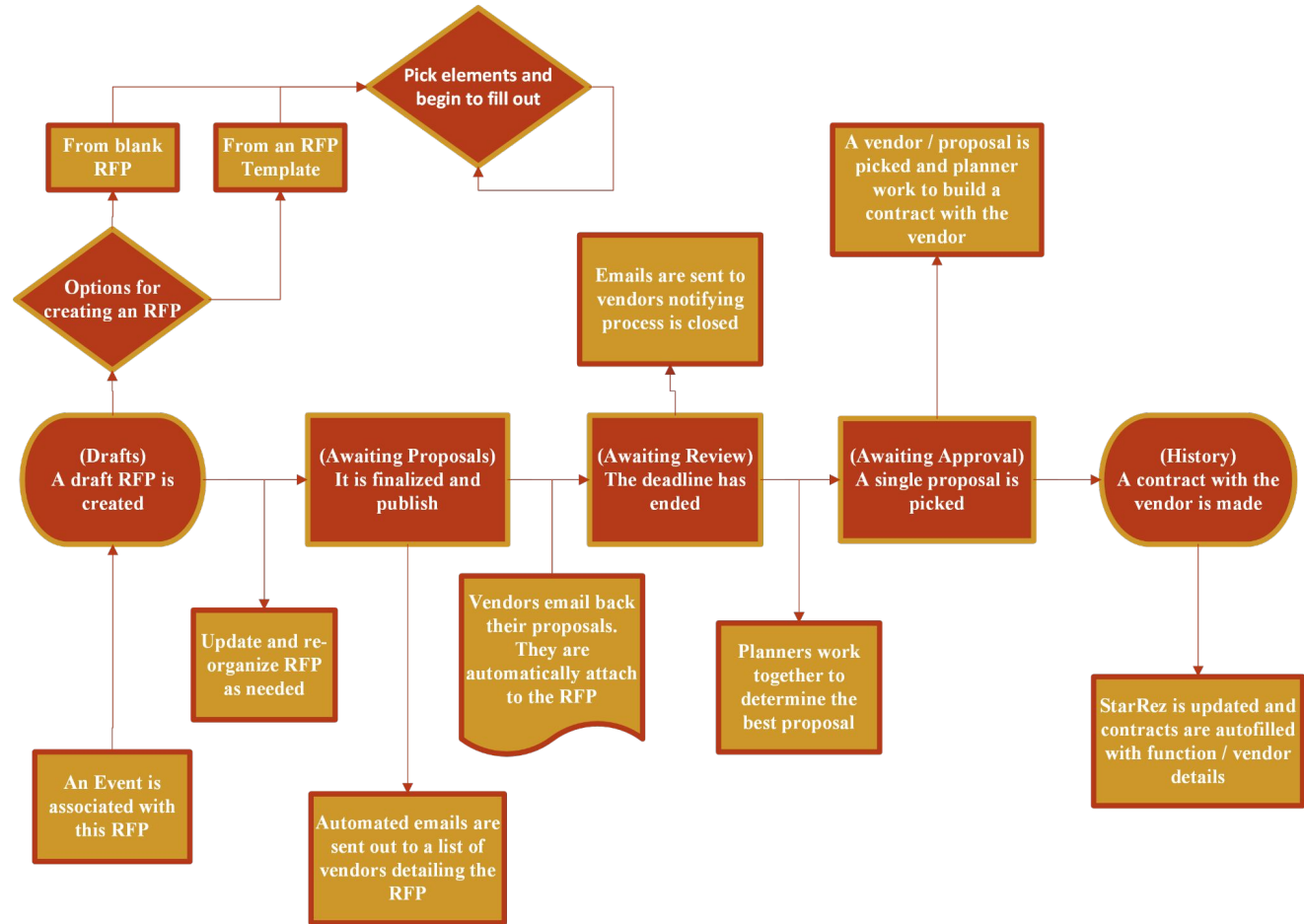
```

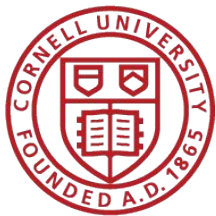
112
113 class Vendor(models.Model):
114
115     # These are the choices for the field vendor_type.
116     HOTEL = 'HT'
117     CATERING = 'CA'
118     EVENT_SPACE = 'ES'
119
120     VENDOR_TYPE_CHOICES = [
121         (HOTEL, 'Hotel'),
122         (CATERING, 'Catering'),
123         (EVENT_SPACE, 'Event Space'),
124     ]
125
126     name = models.CharField(max_length=200)
127     vendor_type = models.CharField(
128         max_length=5,
129         choices=VENDOR_TYPE_CHOICES,
130         default=HOTEL,
131     )
132     email = models.EmailField()
133
134     # Error message if the phone number entered is not in the format
135     # xxx-xxx-xxxx.
136     phone_error = "Phone number is not in the format xxx-xxx-xxxx."
137
138     # Regular expression for the desired phone number format.
139     phone_format = RegexValidator(
140         regex = r'^\d{3}-\d{3}-\d{4}$',
141         message = phone_error,
142     )
143
144     phone = models.CharField(validators=[phone_format], max_length=50)
145
146     details = models.JSONField()
147

```

Workflow

- Web app will help guide RFP process
- Automated emailing to vendors
- Autofill and suggested elements for specific RFP types





Simple Design Overview

Pages a planner may find within the application

Home Page

CES RFP

My RFPs ▾

All RFPs ▾

Templates ▾

New+

Search

i


DT

Awaiting Proposals

Awaiting Review

Awaiting Approval

Home Page



[Templates](#)[NEW RFP](#)[Events ▾](#)[Vendors ▾](#)

My Drafts

All ▾

All RFPs

My RFPs

Awaiting Proposals

Awaiting Review

Awaiting Approval

POST Test 2

This is a test 2

Event 1

Planners: David Thuman

Type: HT

Status: AP

2022-08-01T09:00:00-04:00

RFP X

This is a test

Event 1

Planners: David Thuman, Dave Thuman

Type: HT

Status: AR

2022-08-01T09:00:00-04:00

POST Test 3

This is a test 3

Event 1

Planners: Dave Thuman

Type: ES

Status: AA

2022-08-01T09:00:00-04:00

Test RFP 4

This is a test

Event 1

Planners: David Thuman

Type: CA

Status: AP

2022-08-01T09:00:00-04:00

POST

This is a test

Event 1

Planners: David Thuman, Dave Thuman

Type: ES

Status: AA

2022-08-01T09:00:00-04:00

POST Changed


This is a test

Event 1

Planners: David Thuman, Dave Thuman

Type: ES

New RFP Page



TemplatesNEW RFPEvents ▾Vendors ▾

Create RFP

SAVE

Title

Event

Planners

☐ David Thuman ☐ Dave Thuman

Type

Status

☐ Draft ☐ Awaiting Proposals ☐ Awaiting Review ☐ Awaiting Approval

Deadline

Description

Catering

Housing

Select a Detail

Add a Detail

Minors

☐

Catering

☒

Total Cost

☐

Housing

☒

Cancelled

☐

Test

☐

Code Base Maintenance

Maintenance Level: **Medium**

- Web app has a singular use (track RFPs) so feature upgrades only come at the planner's requests.
- Smaller web app will contain less bugs, causing less updates
- Documentation and build architecture are present

Pros

- One-stop shop for tracking the lifespan of an RFP
- Easy collaboration between planners
- Planners can ask for custom features and we can deliver quickly

Cons

- Medium-scale project requires more testing and maintenance
- Need a server to host web app

Progress

- Can run a Docker Compose file to build a connect frontend, backend, and database
- Strong base for the frontend, backend, and database
- More viewing and editing features need to be created in the frontend

Roadblocks

- No real technical roadblocks, just need more time to build
- Planner input to guide the features that are needed

Technology Needs

In the simplest fashion, a virtual machine to run Docker containers to host frontend, backend, and database.

If more separation is wanted, AWS provides an array of products to:

- Host the database
- Host our backend API
- Create a web server for the frontend

CUWebLogin

- Secure login page for planners

Alternative Solutions

Enterprise-level Software

- Visit Ithaca uses Simple View
- Sales Force

StarRez

- Has a database, but would lack all preferred functionality wanted by planners