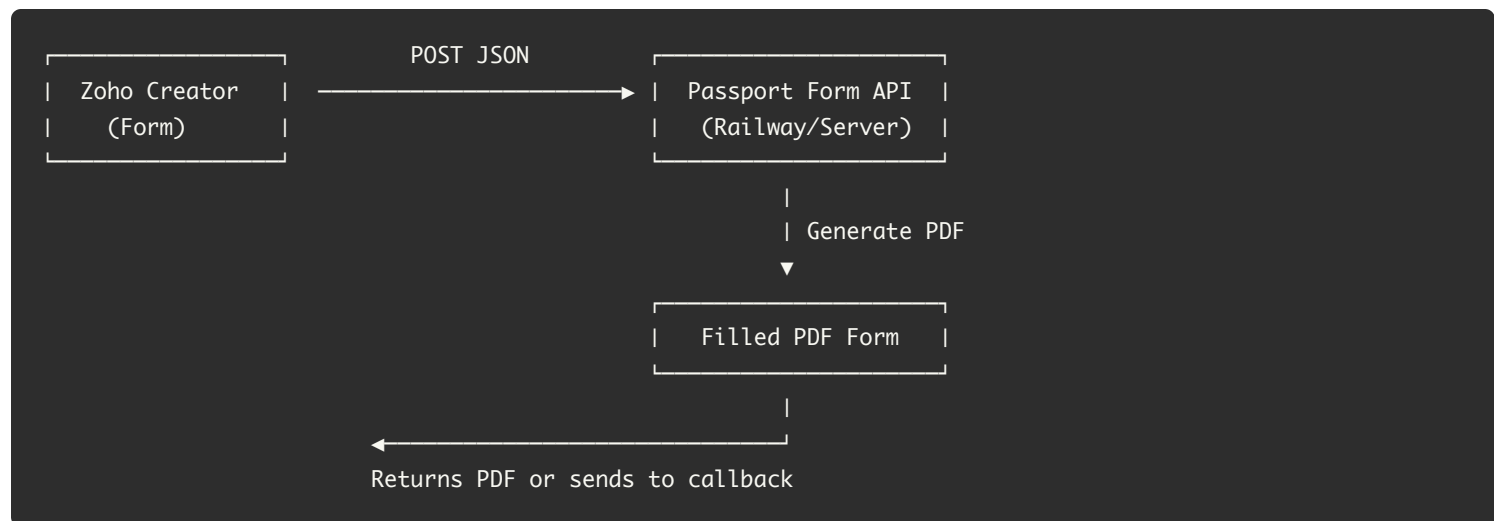


Zoho Creator Integration Specification

Passport Form PDF Generator API

This document explains how to integrate Zoho Creator with the Passport Form PDF Generator API. Send applicant data as JSON, receive a filled Philippine passport application form (PDF).

1. Overview



Process: 1. Zoho Creator form collects applicant information 2. On submit, a Deluge function sends the data as JSON to our API 3. API validates data and generates a filled PDF 4. PDF is returned (or sent to a configured endpoint)

2. API Endpoints

Base URL

```
https://web-production-34c43.up.railway.app
```

Endpoints

Endpoint	Method	Purpose
/webhook	POST	Generate PDF and send to external API
/generate	POST	Generate PDF and return it directly
/health	GET	Health check

3. Required JSON Structure

Send a JSON object with the following structure. **Required fields are marked with .**


Complete JSON Schema

```
{
  "application_type": {
    "applicant_category": "adult"
  },
  "personal_info": {
    "last_name": "DELA CRUZ",
    "first_name": "JUAN III",
    "middle_name": "SANTOS",
    "place_of_birth": "MANILA MM",
    "date_of_birth": {
      "day": "15",
      "month": "03",
      "year": "1990"
    },
    "sex": "male",
    "national_id": "1234-5678-9012-3456",
    "civil_status": "single",
    "present_address": "123 Main St, Makati City, Metro Manila",
    "contact_no": "+63 912 345 6789",
    "email": "juan.delacruz@email.com"
  },
  "family_info": {
    "spouse_name": "N/A",
    "spouse_citizenship": "N/A",
    "father_name": "PEDRO SANTOS DELA CRUZ",
    "father_citizenship": "FILIPINO",
    "mother_maiden_name": "MARIA REYES SANTOS",
    "mother_citizenship": "FILIPINO"
  },
  "citizenship_info": {
    "acquired_by": "birth",
    "foreign_citizenship": {
      "acquired": false,
      "country": ""
    }
  }
}
```



```
    "mode": ""
  },
  "foreign_military": {
    "served": false,
    "country": ""
  },
  "renounced_philippine_citizenship": false,
  "foreign_passport": {
    "issued": false,
    "country": ""
  },
  "philippine_passport": {
    "issued": true,
    "number": "P1234567A",
    "date_of_issue": "2019-05-15",
    "place_of_issue": "DFA MANILA"
  }
},
"minor_info": {
  "accompanied_by": "N/A",
  "relationship": "N/A",
  "accompanying_mobile": "N/A"
},
"emergency_contact": {
  "name": "MARIA SANTOS DELA CRUZ",
  "mobile": "+63 998 765 4321",
  "relationship": "MOTHER",
  "address": "456 Secondary St, Quezon City"
}
}
```

4. Field Reference Table

Application Type

JSON Path	Type	Required	Values	Description
application_type.applicant_category	string	 Yes	"adult" or "minor"	Type of applicant

Personal Information

JSON Path	Type	Required	Example	Description
personal_info.last_name	string	 Yes	"DELA CRUZ"	Surname (uppercase)
personal_info.first_name	string	 Yes	"JUAN III"	Given name (uppercase)

JSON Path	Type	Required	Example	Description
personal_info.middle_name	string	No	"SANTOS"	Middle name or "N/A"
personal_info.place_of_birth	string	No	"MANILA MM"	City/Province of birth
personal_info.date_of_birth.day	string	No	"15"	Day (2 digits)
personal_info.date_of_birth.month	string	No	"03"	Month (2 digits)
personal_info.date_of_birth.year	string	No	"1990"	Year (4 digits)
personal_info.sex	string	No	"male" or "female"	Gender
personal_info.national_id	string	No	"1234-5678-9012-3456"	Philippine National ID
personal_info.civil_status	string	No	See values below	Marital status
personal_info.present_address	string	No	"123 Main St, Makati City"	Current address
personal_info.contact_no	string	No	"+63 912 345 6789"	Mobile number
personal_info.email	string	No	"email@example.com"	Email address

Civil Status Values: "single" , "married" , "widow" , "widower" , "legally_separated" , "annulled"

Family Information

JSON Path	Type	Required	Example	Description
family_info.spouse_name	string	No	"MARIA SANTOS"	Spouse full name or "N/A"
family_info.spouse_citizenship	string	No	"FILIPINO"	Spouse citizenship or "N/A"
family_info.father_name	string	No	"PEDRO DELA CRUZ"	Father's full name
family_info.father_citizenship	string	No	"FILIPINO"	Father's citizenship
family_info.mother_maiden_name	string	No	"MARIA REYES"	Mother's maiden name
family_info.mother_citizenship	string	No	"FILIPINO"	Mother's citizenship

Citizenship Information

JSON Path	Type	Required	Example	Description
citizenship_info.acquired_by	string	No	See values below	How citizenship

JSON Path	Type	Required	Example	Description
				was acquired
citizenship_info.foreign_citizenship.acquired	boolean	No	false	Has foreign citizenship?
citizenship_info.foreign_citizenship.country	string	No	"USA"	Country (if acquired)
citizenship_info.foreign_citizenship.mode	string	No	"birth" or "naturalization"	How it was acquired
citizenship_info.foreign_military.served	boolean	No	false	Served in foreign military?
citizenship_info.foreign_military.country	string	No	""	Country (if served)
citizenship_info.renounced_philippine_citizenship	boolean	No	false	Renounced PH citizenship?
citizenship_info.foreign_passport.issued	boolean	No	false	Has foreign passport?
citizenship_info.foreign_passport.country	string	No	""	Country (if issued)
citizenship_info.philippine_passport.issued	boolean	No	true	Has PH passport before?
citizenship_info.philippine_passport.number	string	No	"P1234567A"	Previous passport number
citizenship_info.philippine_passport.date_of_issue	string	No	"2019-05-15"	Date of previous passport
citizenship_info.philippine_passport.place_of_issue	string	No	"DFA MANILA"	Place of issue

Acquired By Values: "birth" , "election" , "naturalization" , "ra9225" , "others"

Minor Information (only for minor applicants)

JSON Path	Type	Required	Example	Description
minor_info.accompanied_by	string	No	"MARIA DELA CRUZ"	Accompanying adult name
minor_info.relationship	string	No	"MOTHER"	Relationship to minor
minor_info.accompanying_mobile	string	No	" +63 998 765 4321"	Adult's mobile number

Emergency Contact

JSON Path	Type	Required	Example	Description
emergency_contact.name	string	No	"MARIA DELA CRUZ"	Emergency contact name
emergency_contact.mobile	string	No	" +63 998 765 4321"	Emergency contact mobile
emergency_contact.relationship	string	No	"MOTHER"	Relationship to applicant
emergency_contact.address	string	No	"456 St, Quezon City"	Emergency contact address

5. How to Call the API

Option A: Using `/generate` (Returns PDF Directly)

This endpoint returns the PDF file directly in the response.

Request:

```
POST /generate HTTP/1.1
Host: web-production-34c43.up.railway.app
Content-Type: application/json
```

```
{
  "personal_info": {
    "last_name": "DELA CRUZ",
    "first_name": "JUAN",
    ...
  },
  ...
}
```

Response: Binary PDF file with headers:

```
Content-Type: application/pdf
Content-Disposition: attachment; filename=passport_form_JUAN_DELA_CRUZ.pdf
```

Option B: Using `/webhook` (Sends PDF to External API)

This endpoint generates the PDF and POSTs it to a configured external URL.

Request:

```
POST /webhook HTTP/1.1
Host: web-production-34c43.up.railway.app
Content-Type: application/json

{
  "personal_info": {
    "last_name": "DELA CRUZ",
    "first_name": "JUAN",
    ...
  },
  ...
}
```

Success Response (200):

```
{
  "success": true,
  "message": "Document generated and sent successfully",
  "applicant_name": "JUAN SANTOS DELA CRUZ",
  "external_api_response": { ... }
}
```

Validation Error Response (400):

```
{
  "success": false,
  "error": "Missing required field: personal_info.last_name"
}
```

Server Error Response (500):

```
{
  "success": false,
  "error": "PDF template not found"
}
```

6. Zoho Creator Implementation

Sample Deluge Script (Function)

Create a Deluge function in Zoho Creator that runs on form submission:

```
// Function: Generate_Passport_PDF
// Trigger: On form submit

// Build the JSON payload from form fields
applicant_data = Map();

// Application Type
app_type = Map();
app_type.put("applicant_category", input.Applicant_Category); // "adult" or "minor"
applicant_data.put("application_type", app_type);

// Personal Info
personal = Map();
personal.put("last_name", input.Last_Name.toUpperCase());
personal.put("first_name", input.First_Name.toUpperCase());
personal.put("middle_name", ifnull(input.Middle_Name, "N/A").toUpperCase());
personal.put("place_of_birth", input.Place_of_Birth.toUpperCase());

// Date of Birth
dob = Map();
dob.put("day", input.Birth_Day);
dob.put("month", input.Birth_Month);
dob.put("year", input.Birth_Year);
personal.put("date_of_birth", dob);

personal.put("sex", input.Sex.toLowerCase());
personal.put("national_id", ifnull(input.National_ID, ""));
personal.put("civil_status", input.Civil_Status.toLowerCase());
personal.put("present_address", input.Present_Address);
personal.put("contact_no", input.Contact_Number);
personal.put("email", input.Email);
applicant_data.put("personal_info", personal);

// Family Info
family = Map();
family.put("spouse_name", ifnull(input.Spouse_Name, "N/A").toUpperCase());
family.put("spouse_citizenship", ifnull(input.Spouse_Citizenship, "N/A").toUpperCase());
family.put("father_name", input.Father_Name.toUpperCase());
family.put("father_citizenship", input.Father_Citizenship.toUpperCase());
family.put("mother_maiden_name", input.Mother_Maiden_Name.toUpperCase());
family.put("mother_citizenship", input.Mother_Citizenship.toUpperCase());
applicant_data.put("family_info", family);

// Citizenship Info
```



```
citizenship = Map();
citizenship.put("acquired_by", input.Citizenship_Acquired_By.toLowerCase());

foreign_cit = Map();
foreign_cit.put("acquired", input.Has_Foreign_Citizenship);
foreign_cit.put("country", ifnull(input.Foreign_Citizenship_Country, ""));
foreign_cit.put("mode", ifnull(input.Foreign_Citizenship_Mode, "").toLowerCase());
citizenship.put("foreign_citizenship", foreign_cit);

foreign_mil = Map();
foreign_mil.put("served", input.Served_Foreign_Military);
foreign_mil.put("country", ifnull(input.Foreign_Military_Country, ""));
citizenship.put("foreign_military", foreign_mil);

citizenship.put("renounced_philippine_citizenship", input.Renounced_PH_Citizenship);

foreign_pass = Map();
foreign_pass.put("issued", input.Has_Foreign_Passport);
foreign_pass.put("country", ifnull(input.Foreign_Passport_Country, ""));
citizenship.put("foreign_passport", foreign_pass);

ph_pass = Map();
ph_pass.put("issued", input.Has_PH_Passport);
ph_pass.put("number", ifnull(input.Previous_Passport_Number, ""));
ph_pass.put("date_of_issue", ifnull(input.Previous_Passport_Date, ""));
ph_pass.put("place_of_issue", ifnull(input.Previous_Passport_Place, ""));
citizenship.put("philippine_passport", ph_pass);

applicant_data.put("citizenship_info", citizenship);

// Minor Info (if applicable)
minor = Map();
minor.put("accompanied_by", ifnull(input.Accompanied_By, "N/A"));
minor.put("relationship", ifnull(input.Minor_Relationship, "N/A"));
minor.put("accompanying_mobile", ifnull(input.Accompanying_Mobile, "N/A"));
applicant_data.put("minor_info", minor);

// Emergency Contact
emergency = Map();
emergency.put("name", input.Emergency_Name.toUpperCase());
emergency.put("mobile", input.Emergency_Mobile);
emergency.put("relationship", input.Emergency_Relationship.toUpperCase());
emergency.put("address", input.Emergency_Address);
applicant_data.put("emergency_contact", emergency);

// Send to API
api_url = "https://web-production-34c43.up.railway.app/generate";

response = invokeurl
[
    url: api_url
    type: POST
    parameters: applicant_data.toString()
    headers: {"Content-Type": "application/json"}
];
```

```
// Handle response - response will be the PDF file
// You can upload it to the record or store it
info response;
```

7. Zoho Creator Form Fields Mapping

Create these fields in your Zoho Creator form:

Zoho Field Name	Field Type	Maps To JSON Path
Applicant_Category	Radio	application_type.applicant_category
Last_Name	Single Line	personal_info.last_name
First_Name	Single Line	personal_info.first_name
Middle_Name	Single Line	personal_info.middle_name
Place_of_Birth	Single Line	personal_info.place_of_birth
Birth_Day	Single Line	personal_info.date_of_birth.day
Birth_Month	Single Line	personal_info.date_of_birth.month
Birth_Year	Single Line	personal_info.date_of_birth.year
Sex	Radio	personal_info.sex
National_ID	Single Line	personal_info.national_id
Civil_Status	Dropdown	personal_info.civil_status
Present_Address	Multi Line	personal_info.present_address
Contact_Number	Phone	personal_info.contact_no
Email	Email	personal_info.email
Spouse_Name	Single Line	family_info.spouse_name
Spouse_Citizenship	Single Line	family_info.spouse_citizenship
Father_Name	Single Line	family_info.father_name
Father_Citizenship	Single Line	family_info.father_citizenship

Zoho Field Name	Field Type	Maps To JSON Path
Mother_Maiden_Name	Single Line	family_info.mother_maiden_name
Mother_Citizenship	Single Line	family_info.mother_citizenship
Citizenship_Acquired_By	Dropdown	citizenship_info.acquired_by
Has_Foreign_Citizenship	Checkbox	citizenship_info.foreign_citizenship.acquired
Foreign_Citizenship_Country	Single Line	citizenship_info.foreign_citizenship.country
Foreign_Citizenship_Mode	Dropdown	citizenship_info.foreign_citizenship.mode
Served_Foreign_Military	Checkbox	citizenship_info.foreign_military.served
Foreign_Military_Country	Single Line	citizenship_info.foreign_military.country
Renounced_PH_Citizenship	Checkbox	citizenship_info.renounced_philippine_citizenship
Has_Foreign_Passport	Checkbox	citizenship_info.foreign_passport.issued
Foreign_Passport_Country	Single Line	citizenship_info.foreign_passport.country
Has_PH_Passport	Checkbox	citizenship_info.philippine_passport.issued
Previous_Passport_Number	Single Line	citizenship_info.philippine_passport.number
Previous_Passport_Date	Date	citizenship_info.philippine_passport.date_of_issue
Previous_Passport_Place	Single Line	citizenship_info.philippine_passport.place_of_issue
Accompanied_By	Single Line	minor_info.accompanied_by
Minor_Relationship	Single Line	minor_info.relationship
Accompanying_Mobile	Phone	minor_info.accompanying_mobile
Emergency_Name	Single Line	emergency_contact.name
Emergency_Mobile	Phone	emergency_contact.mobile
Emergency_Relationship	Single Line	emergency_contact.relationship
Emergency_Address	Multi Line	emergency_contact.address

8. Dropdown/Radio Field Values

Applicant Category (Radio)

- adult
- minor

Sex (Radio)

- male
- female

Civil Status (Dropdown)

- single
- married
- widow
- widower
- legally_separated
- annulled

Citizenship Acquired By (Dropdown)

- birth
- election
- naturalization
- ra9225
- others

Foreign Citizenship Mode (Dropdown)

- birth
- naturalization
- others

9. Error Handling

HTTP Code	Meaning	Action
200	Success	PDF generated successfully

HTTP Code	Meaning	Action
400	Bad Request	Check JSON structure, missing required fields
500	Server Error	Contact API administrator
502	Bad Gateway	PDF generated but failed to send to external API

10. Testing

Test with cURL

```
curl -X POST https://web-production-34c43.up.railway.app/generate \
-H "Content-Type: application/json" \
-d '{
  "application_type": {"applicant_category": "adult"},
  "personal_info": {
    "last_name": "TEST",
    "first_name": "USER",
    "middle_name": "SAMPLE",
    "place_of_birth": "MANILA",
    "date_of_birth": {"day": "01", "month": "01", "year": "1990"},
    "sex": "male",
    "civil_status": "single",
    "present_address": "123 Test St",
    "contact_no": "+63 912 345 6789",
    "email": "test@example.com"
  },
  "family_info": {
    "spouse_name": "N/A",
    "spouse_citizenship": "N/A",
    "father_name": "FATHER TEST",
    "father_citizenship": "FILIPINO",
    "mother_maiden_name": "MOTHER TEST",
    "mother_citizenship": "FILIPINO"
  },
  "citizenship_info": {
    "acquired_by": "birth",
    "foreign_citizenship": {"acquired": false, "country": "", "mode": ""},
    "foreign_military": {"served": false, "country": ""},
    "renounced_philippine_citizenship": false,
    "foreign_passport": {"issued": false, "country": ""},
    "philippine_passport": {"issued": false, "number": "", "date_of_issue": "", "place_of_issue": ""}
  },
  "minor_info": {"accompanied_by": "N/A", "relationship": "N/A", "accompanying_mobile": "N/A"},
  "emergency_contact": {"name": "EMERGENCY TEST", "mobile": "+63 998 765 4321", "relationship": "FRIEND",
    "address": "456 Test Ave"}
}
```

```
}' \  
--output test_form.pdf
```

11. Contact & Support

For API issues or questions, contact the API administrator.

API Status Check:

```
GET https://web-production-34c43.up.railway.app/health
```

Response:

```
{  
  "status": "healthy",  
  "service": "passport-form-generator"  
}
```