

Accura Cordova Plugin

cordova-accura-kyc

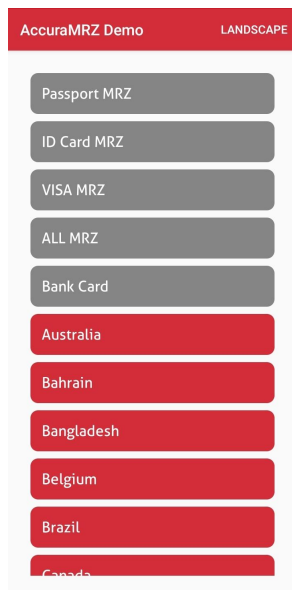
July 04, 2021

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Product Installation

Note: It is assumed that the developer already has a cordova application.



Add android plugin

```
$ cordova plugin add <absolute-path-to-(cordova-accura-kyc)-folder>
```

Example

```
cordova plugin add
```

```
I:\accura-cordova\custom-plugins\cordova-accura-kyc
```

Add dependencies

```
$ cordova plugin add cordova-plugin-file
```

Permissions

- External Storage Write (Requires if need debug logs)

Cordova Configurations

AccuraConfigurations: JSON Object

Option	Type	Default	Description
enableLogs	boolean	false	if true logs will be enabled for the app. make sure to disable logs in release mode
with_face	boolean	false	need when using liveness or face match after ocr
face_uri	URI Sting	undefined	Required when with_face = true
face1	boolean	false	need when using facematch with

			<p>"with_face = false"</p> <p>For Face1 set it to TRUE</p>
face2	boolean	false	<p>need when using facematch with "with_face = false"</p> <p>For Face2 set it to TRUE</p>
rg_setBlurPercentage	integer	62	0 for clean document and 100 for Blurry document
rg_setFaceBlurPercentage	integer	70	0 for clean face and 100 for Blurry face
rg_setGlarePercentage_0	integer	6	Set min percentage for glare
rg_setGlarePercentage_1	integer	98	Set max percentage for glare
rg_isCheckPhotoCopy	boolean	false	Set Photo Copy to allow photocopy document or not
rg_SetHologramDetection	boolean	true	<p>Set Hologram detection to verify the hologram on the face</p> <p>true to check hologram on face</p>
rg_setLowLightTolerance	integer	39	Set light tolerance to detect light on document
rg_setMotionThreshold	integer	18	<p>Set motion threshold to detect motion on camera document</p> <p>1 - allows 1% motion on document and</p> <p>100 - it can not detect motion and allow</p>

			documents to scan.
rg_setMinFrameForValidate	integer	3	Set min frame for qatar ID card for Most validated data. minFrame supports only odd numbers like 3,5...
rg_setCameraFacing	integer	0	To set the front or back camera. allows 0,1
rg_setBackSide	boolean	false	set true to use backside
rg_setEnableMediaPlayer	boolean	true	false to disable default sound and default it is true
rg_customMediaURL	string	null	if given a valid URL it will download the file and use it as an alert sound.
SCAN_TITLE_OCR_FRONT	string	Scan Front Side of %s	
SCAN_TITLE_OCR_BACK	string	Scan Back Side of %s	
SCAN_TITLE_OCR	string	Scan %s	
SCAN_TITLE_BANKCARD	string	Scan Bank Card	
SCAN_TITLE_BARCODE	string	Scan Barcode	
SCAN_TITLE_MRZ_PDF417_FRONT	string	Scan Front Side of Document	
SCAN_TITLE_MRZ_PDF417_BACK	string	Now Scan Back Side of	

		Document	
SCAN_TITLE_DLPLATE	string	Scan Number Plate	
ACCURA_ERROR_CODE_MOTION	string	Keep Document Steady	
ACCURA_ERROR_CODE_DOCUMENT_IN_FRAME	string	Keep document in frame	
ACCURA_ERROR_CODE_BRING_DOCUMENT_IN_FRAME	string	Bring card near to frame.	
ACCURA_ERROR_CODE_PROCESSING	string	Processing...	
ACCURA_ERROR_CODE_BLUR_DOCUMENT	string	Blur detect in document	
ACCURA_ERROR_CODE_FACE_BLUR	string	Blur detected over face	
ACCURA_ERROR_CODE_GLARE_DOCUMENT	string	Glare detect in document	
ACCURA_ERROR_CODE_HOLOGRAM	string	Hologram Detected	
ACCURA_ERROR_CODE_DARK_DOCUMENT	string	Low lighting detected	
ACCURA_ERROR_CODE_PHOTO_COPY_DOCUMENT	string	Can not accept Photo Copy Document	
ACCURA_ERROR_CODE_FACE	string	Face not detected	
ACCURA_ERROR_CODE_MRZ	string	MRZ not detected	
ACCURA_ERROR_CODE_PASSPORT_M	string	Passport	

RZ		MRZ not detected	
ACCURA_ERROR_CODE_ID_MRZ	string	ID card MRZ not detected	
ACCURA_ERROR_CODE_VISA_MRZ	string	Visa MRZ not detected	
ACCURA_ERROR_CODE_WRONG_SIDE	string	Scanning wrong side of document	
ACCURA_ERROR_CODE_UPSIDE_DOWN_SIDE	string	Document is upside down. Place it properly	

Liveness Configurations: JSON Object

Option	Type	Default	Description
feedbackTextSize	integer	18	
feedBackframeMessage	string	Frame Your Face	
feedBackAwayMessage	string	Move Phone Away	
feedBackOpenEyesMessage	string	Keep Your Eyes Open	
feedBackCloserMessage	string	Move Phone Closer	
feedBackCenterMessage	string	Move Phone Center	
feedBackMultipleFaceMessage	string	Multiple Face Detected	
feedBackHeadStraightMessage	string	Keep Your Head Straight	
feedBackBlurFaceMessage	string	Blur Detected Over Face	

feedBackGlareFaceMessage	string	Glare Detected	
feedBackVideoRecordingMessage	string	Processing...	
setBlurPercentage	integer	80	0 for clean face and 100 for Blurry face or set it -1 to remove blur filter
setGlarePercentage_0	integer	-1	Set min percentage for glare or set it -1 to remove glare filter
setGlarePercentage_1	integer	-1	Set max percentage for glare or set it -1 to remove glare filter
isSaveImage	boolean	true	
isRecordVideo	boolean	true	
videoLengthInSeconds	integer	5	
recordingTimerTextSize	integer	45	
recordingMessage	string	Scanning your face be steady	
recordingMessageTextSize	integer	18	
enableFaceDetect	boolean	true	
enableFaceMatch	boolean	true	
fmScoreThreshold	integer	50	
feedbackFMFailed	string	Face not matched	
liveness_url	URL string	Your liveness url	
livenessBackground	color string	#FFC4C4C5	
livenessCloseIcon	color	#FF000000	

	string		
livenessfeedbackBg	color string	#00000000	
livenessfeedbackText	color string	#FF000000	
livenessRecordingTextColor	color string	#555555	
livenessRecordingTimerTextColor	color string	#555555	

Face Match Configurations: JSON Object

Option	Type	Default	Description
fm_feedbackTextSize	integer	18	
fm_feedBackframeMessage	string	Frame Your Face	
fm_feedBackAwayMessage	string	Move Phone Away	
fm_feedBackOpenEyesMessage	string	Keep Your Eyes Open	
fm_feedBackCloserMessage	string	Move Phone Closer	
fm_feedBackCenterMessage	string	Move Phone Center	
fm_feedBackMultipleFaceMessage	string	Multiple Face Detected	
fm_feedBackHeadStraightMessage	string	Keep Your Head Straight	
fm_feedBackBlurFaceMessage	string	Blur Detected Over Face	
fm_feedBackGlareFaceMessage	string	Glare Detected	
fm_setBlurPercentage	integer	80	0 for clean face and 100 for Blurry face or set it -1 to remove blur

			filter
fm_setGlarePercentage_0	integer	-1	Set min percentage for glare or set it -1 to remove glare filter
fm_setGlarePercentage_1	integer	-1	Set max percentage for glare or set it -1 to remove glare filter
backGroundColor	color string	#FFC4C4C5	
closeIconColor	color string	#FF000000	
feedbackBackGroundColor	color string	#00000000	
feedbackTextColor	color string	#FF000000	

CountryModels:

- type: JSON Array
- contents: CardItems
- properties:
 - id: integer
 - name: string
 - Cards: JSON Array<Card Items>

CardItems:

- type: JSON Array
- contents: JSON Objects
- properties:
 - id: integer
 - name: string
 - type: integer

BarcodeItems:

- type: JSON Array
- contents: JSON Objects
- properties:
 - name: string
 - type: integer

Recognition Types:

- MRZ
- OCR
- PDF417
- BARCODE
- DL_PLATE

Mrz Types:

- passport_mrz
- id_mrz
- visa_mrz
- other_mrz

Cordova Methods

- **getMetadata(successCallback, errorCallback)**
 - Success: JSON Response = {


```

countries: Array[<CountryModels<CardItems>>],
barcodes: Array[<BarcodeItems>],
isValid: boolean,
isOCREnable: boolean,
isBarcode: boolean,
isBankCard: boolean,
isMRZ: boolean,
sdk_version: String

```
 - Error: String<Any Error Message>
- **startMRZ(accuraConfigurations?, MRZType, successCallback, errorCallback)**
 - MRZType: String
 - default: other_mrz
 - Success: JSON Response {


```

front_data: JSONObjects?,
back_data: JSONObjects?,
type: Recognition Type,
face: URI?,
front_img: URI?,
back_img: URI?

```
 - Error: String<Any Error Message>
- **startOcrWithCard(accuraConfigurations?,countryID, cardID, cardName,succesCallback, errorCallback)**
 - countryID: Integer

- allowed: CountryModel<country_id>
 - cardID: Integer
 - allowed: CardItem<card_id>
 - cardName: CardItem<card_name>
 - Success: JSON Response {
 - front_data: JSONObjects?,
 - back_data: JSONObjects?,
 - type: Recognition Type,
 - face: URI?
 - front_img: URI?
 - back_img: URI?
 - }
 - Error: String<Any Error Message>
- startBankCard(accuraConfigurations?, successCallback, errorCallback)
 - Success: JSON Response {
 - front_data: JSONObjects?,
 - back_data: JSONObjects?,
 - type: Recognition Type,
 - face: URI?
 - front_img: URI?
 - back_img: URI?
 - }
 - Error: String<Any Error Message>
- startBarcode(accuraConfigurations?, type, successCallback, errorCallback)
 - type: BarcodeItem<type>
 - Success: JSON Response {

- ```

 front_data: JSONObjects?,

 back_data: JSONObjects?,

 type: Recognition Type,

 face: URI?

 front_img: URI?

 back_img: URI?

 }

 ○ Error: String<Any Error Message>

```
- **startLiveness(accuraConfigurations?, livenessConfigs, successCallback, errorCallback)**
    - livenessConfigs: JSONObject?
    - Success: JSON Response {

```

 with_face: Boolean,

 status: Boolean,

 detect: URI?,

 image_uri: URI?,

 video_uri: URI?,

 fm_score: Float? (when with_face = true),

 score: Float,

 }

```
    - Error: String<Any Error Message>
  - **startFaceMatch(accuraConfigurations?, faceMatchConfigs, successCallback, errorCallback)**

- `faceMatchConfigs`: JSON Object?
- `Success`: JSON Response {  
  
    `with_face`: Boolean,  
  
    `status`: Boolean,  
  
    `detect`: URI? (when `with_face` = true),  
  
    `img_1`: URI? (when `with_face` = false),  
  
    `img_2`: URI? (when `with_face` = false),  
  
    `score`: Float  
  
}
- `Error`: String<Any Error Message>

## Usage

### Plugin access in Javascript

```
cordova.plugins.ACCURAService
```

In your cordova javascript event get plugin

```
document.addEventListener('deviceready', onDeviceReady,
false);
```

```
var accura;
```

```
function onDeviceReady() {
 // Cordova is now initialized.
 accura = cordova.plugins.ACCURAService;
}
```

## Usage Example

navigate into cordova/www directory



## 1. html(index.html)

```
<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8">

<meta name="format-detection" content="telephone=no">

<meta name="msapplication-tap-highlight" content="no">

<meta name="viewport" content="initial-scale=1, width=device-width,
viewport-fit=cover">

<meta name="color-scheme" content="light dark">

<link rel="stylesheet" href="css/index.css">

<link rel="stylesheet" href="css/material-kit.css">

<title>Accura KYC</title>

</head>

<body style="background: white; overflow: hidden">
```

### Add Navbar

```
<div class="p-3 d-flex bg-danger justify-content-center
justify-content-between">

<h4 class="m-0 text-white font-weight-bold">Accura</h4>
```

```

<button class="btn btn-light btn-round btn-secondary
btn-sm position-absolute"

style="

width: 110px;

right: 10px;

top: 10px;"

id="orientation-btn">Landscape

</button>

</div>

```

### Add button and contents

```

<div style="display:none;overflow: auto;height: 90%" class=" pt-2"
id="main-div">

<div class="d-flex align-items-center justify-content-center">

<button class="btn btn-rose ocr" style="width: 220px"
data-toggle="modal" data-target="#country-modal">Start

OCR

</button>

</div>

<div class="form-group p-2 border m-3 ocr">

<h4>OCR With Country</h4>

<div class="form-group">

<label for="countries-1">Country</label>

```

```

 <select onchange="countrySelected=this.value"
id="countries-1" class="form-control w-100">

 </select>

 </div>

 <div class="d-flex align-items-center
justify-content-center">

 <button class="btn btn-rose btn-block" style="width:
220px" onclick="startOcrWithCountry()">Start OCR With

 Country

 </button>

 </div>

</div>

<div class="form-group p-2 m-3 border ocr">

 <h4>OCR With Card</h4>

 <div class="form-group col-md-3">

 <label for="countries-2">Country</label>

 <select
onchange="countrySelectedForCard=this.value;getCards(countrySelect
edForCard) ;" id="countries-2"

 class="form-control">

 </select>

 </div>

```

```

<div class="form-group col-md-3">

 <label for="cards">Card</label>

 <select onchange="cardSelected=this.value" id="cards"
class="form-control">

 </select>

 </div>

 <div class="d-flex align-items-center
justify-content-center">

 <button class="btn btn-rose btn-block" style="width:
220px" onclick="startOcrWithCard()">Start OCR With Card

 </button>

 </div>

</div>

<div id="mrz-div" class="form-group p-2 m-3 border"
style="display: none">

 <h4>MRZ</h4>

 <div class="form-group col-md-3">

 <label for="mrz-types">Type</label>

 <select id="mrz-types" onchange="mrzSelected =
this.value" class="form-control">

 <option value="passport_mrz">Passport</option>

 <option value="id_mrz">ID Card</option>

```

```

 <option value="visa_mrz">Visa</option>

 <option selected value="other_mrz">All</option>

 </select>

</div>

<div class="d-flex align-items-center
justify-content-center">

 <button class="btn btn-rose btn-block" style="width:
220px" onclick="startMRZ()">Start MRZ</button>

</div>

</div>

<div id="barcode-div" class="form-group p-2 m-3 border"
style="display: none">

 <h4>Barcode</h4>

 <div class="form-group col-md-3">

 <label for="barcode-types">Type</label>

 <select onchange="barcodeSelected = this.value"
id="barcode-types" class="form-control">

 </select>

 </div>

 <div class="d-flex align-items-center
justify-content-center">

 <button class="btn btn-rose btn-block" style="width:
220px" onclick="startBarcode()">Start Barcode</button>

```

```
</div>
```

```
</div>
```

```
<div id="bank-div" style="display: flex"
class="align-items-center justify-content-center">
```

```
<button class="btn btn-rose btn-block" style="width: 220px"
onclick="startBankCard()">Bank Card</button>
```

```
</div>
```

```
<div style="display: flex" class="align-items-center
justify-content-center ocr">
```

```
<button class="btn btn-rose btn-block" style="width: 220px"
onclick="startFaceMatch()">Face Match</button>
```

```
</div>
```

```
<div style="display: flex" class="align-items-center
justify-content-center mb-5 ocr">
```

```
<button class="btn btn-rose btn-block" style="width: 220px"
onclick="startLiveness()">Liveness</button>
```

```
</div>
```

```
</div>
```

## Add Result Dialog

```
<div class="modal fade" id="result-modal" tabindex="-1"
role="dialog" aria-labelledby="result-modal-title"
aria-hidden="true">
```

```

<div class="modal-dialog" role="document">

 <div class="modal-content">

 <div class="modal-header">

 <h5 class="modal-title"
id="result-modal-title">Accura</h5>

 <button type="button" class="close"
data-dismiss="modal" aria-label="Close">

 ×

 </button>

 </div>

 <div class="modal-body">

 </div>

 <div class="modal-footer">

 <button type="button" class="btn btn-secondary"
data-dismiss="modal">Close</button>

 </div>

 </div>

</div>

```

### Add Face Match Dialog

```

<div class="modal fade" id="fm-modal" tabindex="-1" role="dialog"
aria-labelledby="fm-title" aria-hidden="true">

 <div class="modal-dialog" role="document">

```

```

<div class="modal-content">

 <div class="modal-header">

 <h5 class="modal-title" id="fm-title">Accura
 Facematch</h5>

 <button type="button" class="close"
 data-dismiss="modal" aria-label="Close">

 ×

 </button>

 </div>

 <div class="modal-body">

 <div class="d-flex justify-content-between">

 <div class="d-flex flex-column p-2
 justify-content-between">

 <button onclick="startFaceMatch(false, true,
 false)" class="mt-2 btn btn-danger btn-sm">Choose Face1</button>

 </div>

 <div class="d-flex flex-column p-2
 justify-content-between">

 <button onclick="startFaceMatch(false, false,
 true)" class="mt-2 btn btn-danger btn-sm">Choose Face2</button>

 </div>

```



```
 </div>

 <h5 class="m-0" id="fm-standalone-score"></h5>

 </div>

 <div class="modal-footer">

 <button type="button" class="btn btn-secondary"
data-dismiss="modal">Close</button>

 </div>

</div>

</div>

</div>

</div>
```

## Add Liveness Dialog

```
<div class="modal fade" id="lv-modal" tabindex="-1" role="dialog"
aria-labelledby="fm-title" aria-hidden="true">

 <div class="modal-dialog" role="document">

 <div class="modal-content">
```

```

<div class="modal-header">
 <h5 class="modal-title">Accura Liveness</h5>
 <button type="button" class="close"
data-dismiss="modal" aria-label="Close">
 ×
 </button>
</div>
<div class="modal-body">
 </div>
<div class="modal-footer">
 <button type="button" class="btn btn-secondary"
data-dismiss="modal">Close</button>
</div>
</div>
</div>
</div>

```

## Add Country Selection Dialog

```

<div class="modal fade" id="country-modal" tabindex="-1"
role="dialog" aria-labelledby="fm-title" aria-hidden="true">
 <div class="modal-dialog" role="document">

```

```

<div class="modal-content">

 <div class="modal-header">

 <h5 class="modal-title">Select Country</h5>

 <button type="button" class="close"
data-dismiss="modal" aria-label="Close">

 ×

 </button>

 </div>

 <div class="modal-body">

 </div>

</div>

</div>

</div>

```

### Add Card Selection Dialog

```

<div class="modal fade" id="card-modal" tabindex="-1"
role="dialog" aria-labelledby="fm-title" aria-hidden="true">

 <div class="modal-dialog" role="document">

 <div class="modal-content">

```

```
<div class="modal-header">

 <h5 class="modal-title" id="card-title"></h5>

 <button type="button" class="close"
data-dismiss="modal" aria-label="Close">

 ×

 </button>

</div>

<div class="modal-body">

</div>

</div>

</div>

</div>
```

## Add scripts

```
<script src="cordova.js"></script>

<script src="js/jquery.min.js"></script>

<script src="js/popper.min.js"></script>
```

```
<script src="js/material-kit.min.js"></script>

<script src="js/bootstrap-material-design.min.js"></script>

<script src="js/sweetalert2.js"></script>

<script src="js/index.js"></script>

</body>

</html>
```

## 2. CSS(index.css)

```
body {
```

```

 -webkit-touch-callout: none; /* prevent
callout to copy image, etc when tap to hold */

 -webkit-text-size-adjust: none; /* prevent
webkit from resizing text to fit */

 -webkit-user-select: none; /* prevent copy
paste, to allow, change 'none' to 'text' */

 background-color: #E4E4E4;

 background-image: linear-gradient(to bottom, #A7A7A7 0%,
#E4E4E4 51%);

 font-family: system-ui, -apple-system, -apple-system-font,
'Segoe UI', 'Roboto', sans-serif;

 font-size: 12px;

 height: 100vh;

 margin: 0px;

 padding: 0px;

 /* Padding to avoid the "unsafe" areas behind notches in
the screen */

 padding: env(safe-area-inset-top, 0px)
env(safe-area-inset-right, 0px) env(safe-area-inset-bottom,
0px) env(safe-area-inset-left, 0px);

 text-transform: uppercase;

 width: 100%;
}

.country-card {

 cursor: pointer;

```

```
background: red;

color: white;

padding: 10px 15px;

max-width: 320px;

border-radius: 15px;

margin-bottom: 10px;

}
```

### 3. javascript(index.js)

#### initialize Cordova

```
document.addEventListener('deviceready', onDeviceReady, false);

function onDeviceReady() {
```

```

screen.orientation.lock('portrait');

$('#orientation-btn').on('click', function () {

 var txt = $('#orientation-btn').text().trim().toLowerCase();

 if (txt.indexOf('landscape') !== -1) {

 screen.orientation.lock('landscape-primary');

 $('#orientation-btn').text("Portrait");

 } else {

 screen.orientation.lock('portrait');

 $('#orientation-btn').text("Landscape");

 }

});

window.alert = function (m) {

 Swal.fire({

 title: 'Accura',

 text: m,

 confirmButtonColor: 'red'

 });

};

accura = cordova.plugins.ACCURAService;

console.log('Running cordova-' + cordova.platformId + '@' +
cordova.version);

getMetadata();

```



```
}
```

## Call Metadata to fill forms

```
function getMetadata() {

 accura.getMetadata(function (results) {

 console.log(results);

 $('#countries-1, #countries-2, #country-modal
 .modal-body').empty();

 if (results.isValid) {

 alert('Licence Loaded');

 $('#main-div').fadeIn();

 if (results.isOCR) {

 if (results.countries.length > 0) {

 countries = results.countries;

 results.countries.forEach(function (country, i) {

 var uid = i + '_' + country.id;

 if (i === 0) {

 countrySelected = countrySelectedForCard = uid;

 getCards(countrySelectedForCard)

 }

 $('#countries-1, #countries-2').append(

 '<option value="' + uid + '">' + country.name +

 '</option>'

)

 })

 }

 }

 }

 })

}
```

```

 $('#country-modal .modal-body').append(
 '<h5 onclick="getCardsModal(this.id)"
class="country-card" id="' + i + '">' + country.name + '</h5>'
)

 });

}

}

if (results.isMRZ) {

 $('#mrz-div').fadeIn();

}

if (results.isBarcode) {

 $('#barcode-div').fadeIn();

 results.barcodes.forEach(function (barcode, i) {

 if (i === 0) {

 barcodeSelected = barcode.type;

 }

 $('#barcode-types').append(

 '<option value="' + barcode.type + '">' +
barcode.name + '</option>'

)

 })

}

```

```

 if (results.isBankCard) {

 $('#bank-div').fadeIn();

 }

 } else {

 alert('Licence is not Loaded');

 }

}, function (error) {

 alert(error);

})

}

```

### Initialize cordova back button

```

document.addEventListener("backbutton", function () {

 if ($('#card-modal').hasClass('show')) {

 $('#card-modal').modal('hide');

 return;

 }

 if ($('#country-modal').hasClass('show')) {

 $('#country-modal').modal('hide');

 return;

 }

 if ($('#lv-modal').hasClass('show')) {

```

```
 $('#lv-modal').modal('hide');

 return;
}

if ($('#fm-modal').hasClass('show')) {

 $('#fm-modal').modal('hide');

 return;
}

if ($('#result-modal').hasClass('show')) {

 $('#result-modal').modal('hide');

 return;
}

Swal.fire({

 title: 'Do you want to Exit?',

 showCancelButton: true,

 confirmButtonText: `Exit`,

 confirmButtonColor: 'red'

}).then((result) => {

 if (result.isConfirmed) {

 navigator.app.exitApp();

 }

});

}, false);
```

### initialize common helper variables

```
var accura;

var loadingImg = <image path>;

var errorImg = <image path>
```

### Initialize Country Selection

```
var countrySelectedId;

var countryCard;
```

```
function getCardsModal(id) {

 countryCard = countries[id].cards;

 countrySelectedId = countries[id].id;

 $('#card-title').text(countries[id].name + ": ");

 $('#card-modal .modal-body').empty();

 countryCard.forEach(function (card, i) {

 $('#card-modal .modal-body').append(

 '<h5 onclick="openForCard(this.id)" class="country-card" id="'
+ i + '">' + card.name + '</h5>'

)

 })

 $('#country-modal').modal('hide');

 setTimeout(function () {
```

```

 $('#card-modal').modal();

 }, 300);

}

function openForCard(id) {

 $('#country-modal').modal('hide');

 $('#card-modal').modal('hide');

 var accuraConfs = {};

 accura.startOcrWithCard(accuraConfs, countrySelectedId,
countryCard[id].id, countryCard[id].name, countryCard[id].type, function
(results) {

 generateResult(results);

 }, function (error) {

 alert(error);

 })

}

```

## Initialize Card Selection

```

function startOcrWithCountry() {

 getCardsModal(countrySelected.split('_')[0]);

}

```

## Initialize Country with Card Selection

```
var countries = [];

var cards;

var countrySelected = '';

var countrySelectedForCard = '';

var cardSelected = '';

var mrzSelected = 'other_mrz';

var barcodeSelected = '';

function getCards(id) {
 id = id.split("_");

 cards = countries[id[0]].cards;

 $('#cards').empty();

 cards.forEach(function (card, i) {
 var uid = i + '_' + card.id + '_' + card.type;

 if (i === 0) {
 cardSelected = uid;
 }

 $('#cards').append(
 '<option value="' + uid + '>' + card.name + '</option>'
)
 })
}
```

```

function startOcrWithCard() {

 var accuraConfs = {};

 var cardSlected = cards[cardSelected.split('_')[0]];

 accura.startOcrWithCard(

 accuraConfs,

 countrySelectedForCard.split('_')[1],

 cardSlected.id,

 cardSlected.name,

 cardSlected.type,

 function (results) {

 generateResult(results);

 }, function (error) {

 alert(error);

 })

}

```

## Initialize bankcard

```

function startBankCard() {

 var accuraConfs = {};

 accura.startBankCard(accuraConfs, function (results) {

 generateResult(results);

 }, function (error) {

 }

```



```
 alert(error);

 });

}
```

## Initialize barcode

```
function startBarcode() {

 var accuraConfs = {};

 accura.startBarcode(accuraConfs, barcodeSelected, function (results) {

 generateResult(results);

 }, function (error) {

 alert(error);

 })

}
```

## Initialize Liveness

```
function startLiveness(withFace = false) {

 var accuraConfs = {with_face: withFace, face_uri: facematchURI};

 if (!withFace) {delete accuraConfs.face_uri;}

 var config = {

 feedbackTextSize: 18,
```

```

feedbackframeMessage: 'Frame Your Face',

feedbackAwayMessage: 'Move Phone Away',

feedbackOpenEyesMessage: 'Keep Your Eyes Open',

feedbackCloserMessage: 'Move Phone Closer',

feedbackCenterMessage: 'Move Phone Center',

feedbackMultipleFaceMessage: 'Multiple Face Detected',

feedbackHeadStraightMessage: 'Keep Your Head Straight',

feedbackBlurFaceMessage: 'Blur Detected Over Face',

feedbackGlareFaceMessage: 'Glare Detected',

feedbackVideoRecordingMessage: 'Processing...',

 // <!--// 0 for clean face and 100 for Blurry face or set it -1 to
remove blur filter-->

 setBlurPercentage: 80,

 // <!--// Set min percentage for glare or set it -1 to remove glare
filter-->

 setGlarePercentage_0: -1,

 // <!--// Set max percentage for glare or set it -1 to remove glare
filter-->

 setGlarePercentage_1: -1,

 isSaveImage: true,

 isRecordVideo: true,

 videoLengthInSeconds: 2,

 recordingTimerTextSize: 45,

```

```

 recordingMessage: 'Scanning your face be steady',

 recordingMessageTextSize: 18,

 enableFaceDetect: true,

 fmScoreThreshold: 50,

 enableFaceMatch: false,

 feedbackFMFailed: "Face not matched",

 liveness_url: '<your liveness url>'
 };

$('#ls-score,#fm-score').text("0.00 %");

accura.startLiveness(accuraConfs, config, function (result) {

 console.log(result);

 if (result.hasOwnProperty('status')) {

 if (result.status) {

 if (result.with_face) {

 $('#score-div').fadeIn('fast', function () {

 $('#score-div').css('display', 'flex');

 });

 $('#ls-score').text(Number(result.score).toFixed(2) + '

%');

 if (result.hasOwnProperty('detect')) {

 $('#detect-face').fadeIn();

 getImage('detect-face', result.detect);

```

```

$('#face-div').addClass('justify-content-between');

 }

 if (result.hasOwnProperty('fm_score')) {

$('#fm-score').text(Number(result.fm_score).toFixed(2) + ' %');

 }

 return;

}

var html = '<h4>Liveness Results</h4>';

if (result.hasOwnProperty('image_uri')) {

 window.resolveLocalFileSystemURL(result.image_uri,
function (fileEntry) {

 fileEntry.file(function (file) {

 var reader = new FileReader();

 reader.onloadend = function () {

 $('#live_img_div').empty().append(

 '<h3>Liveness Image: </h3>'

)

 $('#live_image').attr("src", this.result);

 };

```

```

 reader.onerror = function () {

 $('#live_img_div').remove();

 }

 reader.readAsDataURL(file);

 }, function () {

 $('#live_img_div').remove();

 });

}, function () {

 $('#live_img_div').remove();

});

 html += '<div id="live_img_div"><h3>Liveness Image:
</h3></div>'

}

 if (result.hasOwnProperty('video_uri')) {

 video_uri = result.video_uri;

 html += '<div id="live_video" class="w-100">' +
'<h3>Live Video: </h3>' +

 '<button onclick="openVideoForPlay()" class="btn
btn-rose">Play Live Video</button>' + '</div>'

 } else {

 video_uri = undefined;

```

```

 }

 html += '<h5>Liveness Score: ' +
Number(result.score).toFixed(2) + ' %</h5>';

 $('#lv-modal .modal-body').empty().append(

 html

);

 $('#lv-modal').modal();

 }

}

console.log(result);

}, function (error) {

 alert(error);

});

}

var video_uri;

function openVideoForPlay() {

 if (video_uri === undefined) {

 alert("Video not found");

 return

 }

```

```

var options = {

 errorCallback: function (errMsg) {

 alert(errMsg);

 },

 shouldAutoClose: true, // true(default)/false

 controls: true // true(default)/false. Used to hide controls on
fullscreen

};

window.plugins.streamingMedia.playVideo(video_uri, options);

}

```

## Initialize face match

```
var facematchURI;
```

```

function startFaceMatch(withFace = false, face1 = false, face2 = false) {

 var accuraConfs = {with_face: withFace, face_uri: facematchURI};

```

```
if (!withFace) {delete accuraConfs.face_uri;}

if (face1) {face2 = false;}

if (face2) {face1 = false;}

accuraConfs.face1 = face1;

accuraConfs.face2 = face2;

var config = {

 fm_feedbackTextSize: 18,

 fm_feedBackframeMessage: 'Frame Your Face',

 fm_feedBackAwayMessage: 'Move Phone Away',

 fm_feedBackOpenEyesMessage: 'Keep Your Eyes Open',

 fm_feedBackCloserMessage: 'Move Phone Closer',

 fm_feedBackCenterMessage: 'Move Phone Center',

 fm_feedBackMultipleFaceMessage: 'Multiple Face Detected',

 fm_feedBackHeadStraightMessage: 'Keep Your Head Straight',

 fm_feedBackBlurFaceMessage: 'Blur Detected Over Face',

 fm_feedBackGlareFaceMessage: 'Glare Detected',

 // <!--// 0 for clean face and 100 for Blurry face or set it -1 to
remove blur filter-->

 fm_setBlurPercentage: 80,

 // <!--// Set min percentage for glare or set it -1 to remove glare
filter-->

 fm_setGlarePercentage_0: -1,

 fm_setGlarePercentage_1: -1,
```



```

};

$('#ls-score,#fm-score').text("0.00 %");

accura.startFaceMatch(accuraConfs, config, function (result) {

 console.log(result);

 if (result.hasOwnProperty('status')) {

 if (result.status) {

 if (result.with_face) {

 $('#fm-score').text(Number(result.score).toFixed(2) + '
%');

 $('#face-div').addClass('justify-content-between');

 $('#detect-face').fadeIn();

 getImage('detect-face', result.detect);

 $('#score-div').fadeIn('fast', function () {

 $('#score-div').css('display', 'flex');

 });

 return;

 }

 if (result.hasOwnProperty('score')) {

 $('#fm-standalone-score').text('Face Match: ' +
Number(result.score).toFixed(2) + ' %');

 } else {

 $('#fm-standalone-score').text('0.0 %');

 }

 }
 }
});

```

```

 $('#fm-2, #fm-1').attr("src", loadingImg);

 getImage('fm-1', result.img_1);

 getImage('fm-2', result.img_2);

 } else {

 if (result.hasOwnProperty('img_1')) {

 $('#fm-1').attr("src", loadingImg);

 getImage('fm-1', result.img_1);

 }

 }

}

}, function (error) {

 alert(error);

});

}

```

## Initialize MRZ

```

function startMRZ() {

 var accuraConfigs = {};

 accura.startMRZ(accuraConfigs, mrzSelected, function (result) {

 generateResult(result)

 }, function (error) {

```

```

 alert(error)

 })

}

```

## Initialize Helper function

```

function generateResult(result) {

 console.log(result)

 var html = '';

 var sides = ["front_data", "back_data"];

 if (result.hasOwnProperty("face")) {

 html +=

 "<div id='face-div' class='d-flex justify-content-center'" +

 " <img id='face' src='" + loadingImg + "' class='img-fluid'" +
 "style='max-height: 120px'" +

 " <img id='detect-face' src='" + loadingImg + "' +
 "class='img-fluid' style='display: none;max-height: 120px'" +

 "</div>" +

 "<div class='d-flex justify-content-center'" +

 " <button onclick='startLiveness(true)' id='check-ls'" +
 "style='display: none' class='btn-rose btn btn-sm'" +

 " <div class='d-flex justify-content-center'" +

 " <img style='height: 22px' class='mr-1'" +
 "src='./img/ic_liveness.png'" +

 " <h5 class='m-0'>LIVENESS</h5>" +

```

```

" </div>" +

" </button>" +

" <button onclick='startFaceMatch(true)' id='check-ls'
style='display: none' class='btn-rose btn btn-sm'>" +

" <div class='d-flex justify-content-center'>" +

" <img style='margin-top:2px;height: 22px'
class='mr-1' src='./img/ic_biometric.png'>" +

" <h5 class='m-0'>FACE MATCH</h5>" +

" </div>" +

" </button>" +

"</div>" +

"<div id='score-div' style='display: none'
class='justify-content-center justify-content-between'>" +

" <h5 id='ls-score'>0.00 %</h5>" +

" <h5 id='fm-score'>0.00 %</h5>" +

"</div>";

facematchURI = result.face;

getImage('face', result.face, true);

}

sides.forEach(function (side, i) {

 if (result.hasOwnProperty(side)) {

 if (Object.keys(result[side]).length > 0) {

 if (i === 0) {

```

```
switch (result.type) {

 case "BANKCARD":

 html += "<h4 class='p-2 font-weight-bold'
style='background: lightgrey'>Bank Card Data</h4>";

 break;

 case "DL_PLATE":

 html += "<h4 class='p-2 font-weight-bold'
style='background: lightgrey'>Vehicle Plate</h4>";

 break;

 case "BARCODE":

 html += "<h4 class='p-2 font-weight-bold'
style='background: lightgrey'>Barcode Data</h4>";

 break;

 case "PDF417":

 html += "<h4 class='p-2 font-weight-bold'
style='background: lightgrey'>PDF417 Barcode</h4>";

 break;

 case "OCR":

 html += "<h4 class='p-2 font-weight-bold'
style='background: lightgrey'>OCR Front</h4>";

 break;

 case "MRZ":

 html += "<h4 class='p-2 font-weight-bold'
style='background: lightgrey'>MRZ</h4>";

```

```

 break;

 case "BARCODEPDF417":

 html += "<h4 class='p-2 font-weight-bold'
style='background: lightgrey'>USA DL Result</h4>";

 break;

 default:

 html += "<h4 class='p-2 font-weight-bold'
style='background: lightgrey'>Front Side</h4>";

 break;

 }

} else {

 html += "<h4 class='p-2 font-weight-bold'
style='background: lightgrey'>OCR Back</h4>";

}

var table = '<table id="result-table" class="table
table-responsive">' +

 ' <thead></thead><tbody>';

var width = $(window).width();

var tdLen1 = Math.round(0.35 * width);

var tdLen2 = Math.round(0.55 * width);

```

```

Object.keys(result[side]).forEach(function (key) {

 if (key !== "PDF417") {

 if (["signature", "front_img",
"back_img"].indexOf(key) === -1) {

 if (result[side][key].indexOf("<") !== -1) {

 table += "<tr><td class='text-danger p-2'
style='vertical-align:inherit;max-width: " + tdLen1 + "px;white-space:
pre-wrap;word-break: break-word;'>" + key + "</td><td style='max-width: "
+ tdLen2 + "px;white-space: pre-wrap;word-break: break-word;'><pre
style='white-space: pre-wrap;word-break: break-word;'>" +
result[side][key].replace(/</g, '<') + "</pre></td></tr>";

 } else {

 table += "<tr><td class='text-danger p-2'
style='vertical-align:inherit;max-width: " + tdLen1 + "px;white-space:
pre-wrap;word-break: break-word;'>" + key + "</td><td style='max-width: "
+ tdLen2 + "px;white-space: pre-wrap;word-break: break-word;'>" +
result[side][key] + "</td></tr>";

 }

 } else if (key === "signature") {

 table += "<tr><td class='text-danger p-2'
style='vertical-align:inherit;'>" + key + "</td><td><img id='signature_" +
side + "' src='" + loadingImg + "' class='img-fluid'></td></tr>";

 getImage('signature_' + side,
result[side][key]);

 }

 }

}

```

```

 });

 var key = "PDF417";

 if (result[side].hasOwnProperty(key)) {

 table += "<tr style='background: lightgrey' class='p-2
font-weight-bold'><td style='max-width: "+tdLen1+"px;'>PDF417
Barcode</td><td></td></tr>";

 if (result[side][key].indexOf("<") !== -1) {

 table += "<tr><td class='text-danger p-2'
style='vertical-align:inherit;max-width: "+tdLen1+"px;white-space:
pre-wrap;word-break: break-word;'>" + key + "</td><td style='max-width:
"+tdLen2+"px;white-space: pre-wrap;word-break: break-word;'><pre
style='white-space: pre-wrap;word-break: break-word;'>" +
result[side][key].replace(/</g, '<') + "</pre></td></tr>";

 } else {

 table += "<tr><td class='text-danger p-2'
style='vertical-align:inherit;max-width: "+tdLen1+"px;white-space:
pre-wrap;word-break: break-word;'>" + key + "</td><td style='max-width:
"+tdLen2+"px;white-space: pre-wrap;word-break: break-word;'>" +
result[side][key] + "</td></tr>";

 }

 }

 table += '</tbody></table>';

 html += table;

}

}

```



```

});

if (result.hasOwnProperty('mrz_data')) {

 var keys = Object.keys(result.mrz_data);

 if (keys.length > 0) {

 html += "<h4 class='p-2 font-weight-bold' style='background:
lightgrey'>MRZ</h4>";

 var table = '<table id="mrz-table" class="table
table-responsive">' +

 ' <thead></thead><tbody>';

 var width = $(window).width();

 var tdLen1 = Math.round(0.35 * width);

 var tdLen2 = Math.round(0.55 * width);

 if (result.mrz_data.hasOwnProperty("MRZ")) {

 if (result.mrz_data.MRZ.indexOf("<") !== -1) {

 table += "<tr><td class='text-danger p-2'
style='vertical-align:inherit;max-width: "+tdLen1+"px;white-space:
pre-wrap;word-break: break-word;'>MRZ</td><td style='max-width:
"+tdLen2+"px;white-space: pre-wrap;word-break: break-word;'><pre
style='white-space: pre-wrap;word-break: break-word;'>" +
result.mrz_data.MRZ.replace(/</g, '<') + "</pre></td></tr>";

 } else {

 table += "<tr><td class='text-danger p-2'
style='vertical-align:inherit;max-width: "+tdLen1+"px;white-space:
pre-wrap;word-break: break-word;'>MRZ</td><td style='max-width:
"+tdLen2+"px;white-space: pre-wrap;word-break: break-word;'>" +
result.mrz_data.MRZ + "</td></tr>";

```

```

 }

 }

 keys.forEach(function (key) {

 if (key !== "MRZ") {

 if (result.mrz_data[key].indexOf("<") !== -1) {

 table += "<tr><td class='text-danger p-2'
style='vertical-align:inherit;max-width: " + tdLen1 + "px;white-space:
pre-wrap;word-break: break-word;'>" + key + "</td><td style='max-width: "
+ tdLen2 + "px;white-space: pre-wrap;word-break: break-word;'><pre
style='white-space: pre-wrap;word-break: break-word;'>" +
result.mrz_data[key].replace(/</g, '<') + "</pre></td></tr>";

 } else {

 table += "<tr><td class='text-danger p-2'
style='vertical-align:inherit;max-width: " + tdLen1 + "px;white-space:
pre-wrap;word-break: break-word;'>" + key + "</td><td style='max-width: "
+ tdLen2 + "px;white-space: pre-wrap;word-break: break-word;'>" +
result.mrz_data[key] + "</td></tr>";

 }

 }

 });

 table += '</tbody></table>';

 html += table;

}

}

if (result.hasOwnProperty("front_img")) {

```

```

 html += "<div class='mt-3 d-flex align-items-center'><h4
class='p-2 font-weight-bold' style='background: lightgrey'>FRONT
SIDE</h4></div><img id='front-image' src='" + loadingImg + "'
class='img-fluid'>";

 getImage('front-image', result.front_img, true);

}

if (result.hasOwnProperty("back_img")) {

 html += "<div class='p-2 mt-3 d-flex align-items-center
bg-rose'><h4 class='p-2 font-weight-bold' style='background:
lightgrey'>BACK SIDE</h4></div><img id='back-image' src='" + loadingImg +
"' class='img-fluid'>";

 getImage('back-image', result.back_img, true);

}

$('#result-modal .modal-body').empty().append(html);

$('#result-modal').modal();

}

function getImage(id, uri, isFm = false) {

 window.resolveLocalFileSystemURL(uri, function (fileEntry) {

 fileEntry.file(function (file) {

 var reader = new FileReader();

 reader.onloadend = function () {

 $('#'+ id).attr("src", this.result);

 if (isFm) {

```

```

 $('#check-ls, #check-fm').fadeIn()

 }

};

reader.onerror = function () {

 $('#' + id).attr("src", errorImg);

 if (isFm) {

 $('#check-ls, #check-fm').fadeOut()

 }

}

reader.readAsDataURL(file);

}, function () {

 $('#' + id).attr("src", errorImg);

 if (isFm) {

 $('#check-ls, #check-fm').fadeOut()

 }

});

}, function () {

 $('#' + id).attr("src", errorImg);

 if (isFm) {

```

```
 $('#check-ls, #check-fm').fadeOut()
 }
 });
}
```

## Commit Files

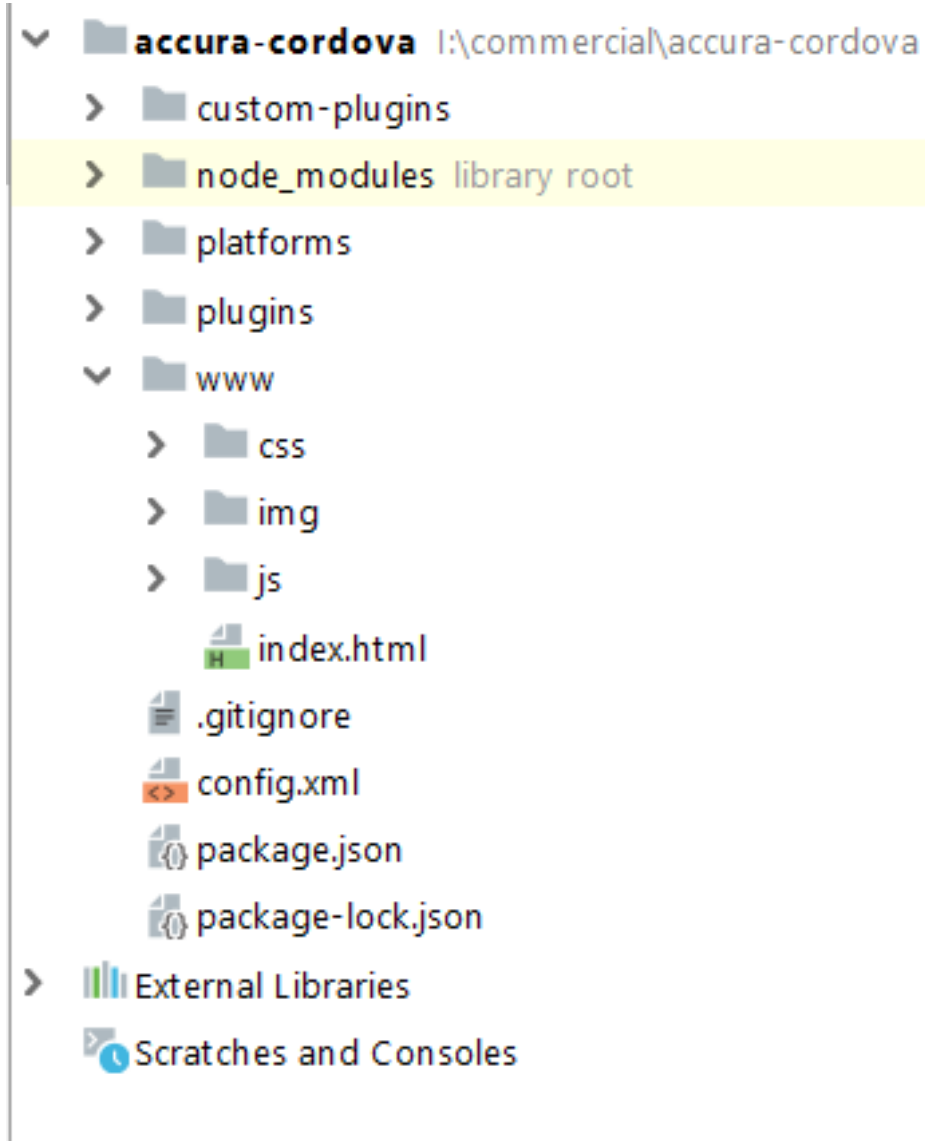
Run

```
$ cordova prepare android
```

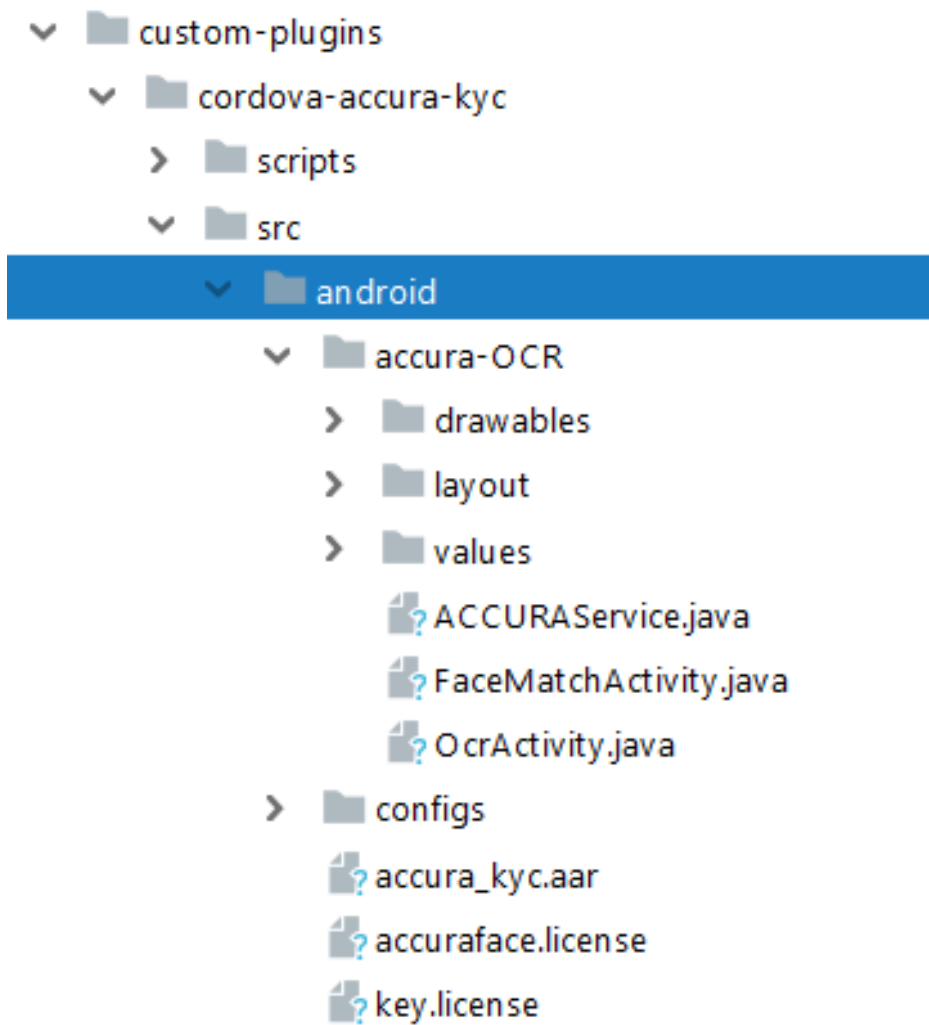
## Details for Plugin Modifications

### 1. Structure

#### 1.1. Cordova Structure



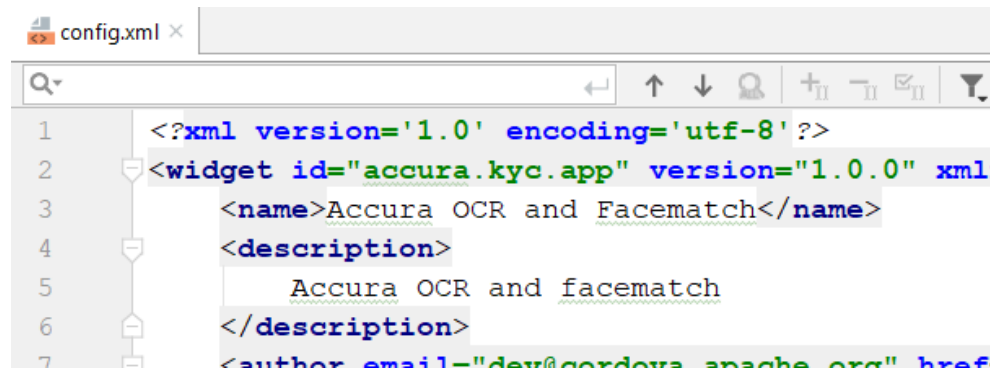
## 1.2. Plugin Structure



Plugin path = I:\accura-cordova\custom-plugins\cordova-accura-kyc

## 2. Package Name

Accura licence needs Package name for android. To get cordova app package name open the config.xml in the root I:\accura-cordova\config.xml



id will be the package name.

**TO MODIFY** rename it to your desire package name and run in CMD (in the root of cordova project i.e I:\accura-cordova\)

**"cordova prepare android"**

### 3. License Paths

These are the paths for licences:

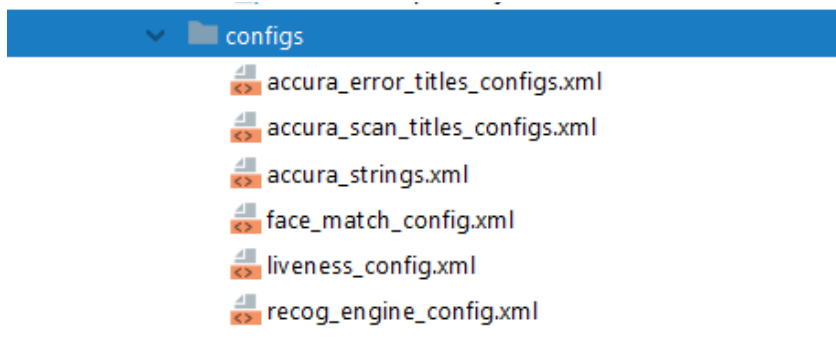
- \accura-cordova\custom-plugins\cordova-accura-kyc\src\android\accuraface.license
- \accura-cordova\custom-plugins\cordova-accura-kyc\src\android\key.license

Replace your licensees in these locations.

### 4. Configurations



Structure:



#### 4.1. Accura Error Messages

File: /cordova-accura-kyc/src/android/configs/accura\_error\_titles\_configs.xml

You can change default settings here.

#### 4.2. Accura Scan Messages

File: /cordova-accura-kyc/src/android/configs/accura\_scan\_titles\_configs.xml

You can change default settings here.

#### 4.3. Accura Common Strings

File: /cordova-accura-kyc/src/android/configs/accura\_strings.xml

You can change default settings here.

#### 4.4. Face Match

File: /cordova-accura-kyc/src/android/configs/face\_match\_config.xml

You can change default settings here.

#### 4.5. Liveness

File: /cordova-accura-kyc/src/android/liveness\_config.xml

You can change default settings here.

#### 4.6. Recog Engine Initial Settings

File: /cordova-accura-kyc/src/android/recog\_engine\_config.xml

## 5. Accura AAR framework

Accura framework file is located at:

`\accura-cordova\custom-plugins\cordova-accura-kyc\src\android\accura_kyc.aar`

**NOTE: the filename should be the same.**

For updating your new AAR file replace the above file.

## Modify Activities

Folder: \cordova-accura-kyc\src\android\accura-OCR

1. FaceMatchActivity.java
2. OcrActivity.java

**NOTE: do not replace the file. Only edit the code.**

All the activities are modifiable. And any android developer can modify these activities.

## Modify Layouts

Folder: \cordova-accura-kyc\src\android\accura-OCR\layout

1. custom\_frame\_layout.xml
2. ocr\_activity.xml

**NOTE: do not replace the file. Only edit the code.**

All the layouts are modifiable. And any android developer can modify these activities.

## Commit Modifications

After all the modifications or any modification open CMD at root(i.e \accura-cordova\)  
and run the following commands one by one

1. \$ `cordova plugin remove cordova-accura-kyc`
2. \$ `cordova plugin add I:\accura-cordova\custom-plugins\cordova-accura-kyc`