## TLR - data migration

### Planned changes in Circulation request DB schema

<table>
<thead>
<tr>
<th>Current DB record structure (segments to be removed are in orange)</th>
<th>Proposed DB record structure (segments to be added are in green)</th>
</tr>
</thead>
</table>
| ```json
{
  "id": "9c8583f1-8631-4194-a477-572d342cdd4d",
  "item": {
    "title": "A semantic web primer",
    "barcode": "10101",
    "identifiers": [
      {
        "value": "0262012103",
        "identifierTypeId": "8261054f-be78-422d-bd51-4ed9f33c3422"
      },
      {
        "value": "9780262012102",
        "identifierTypeId": "8261054f-be78-422d-bd51-4ed9f33c3422"
      },
      {
        "value": "2003065165",
        "identifierTypeId": "c858e4f2-2b6b-4385-842b-60732ee14abb"
      }
    ],
    "itemId": "7212ba6a-8dcf-45a1-be9a-ffaa847c4423",
    "status": "Open - Not yet filled",
    "metadata": {
      "createdDate": "2021-09-09T13:14:43.756",
      "updatedDate": "2021-09-09T13:14:43.756+00:00",
      "createdByUserId": "c2d3902a-3454-50ea-998f-42897e32ac5f",
      "updatedByUserId": "c2d3902a-3454-50ea-998f-42897e32ac5f"
    },
    "position": 1,
    "requester": {
      "barcode": "10001",
      "lastName": "Kurash",
      "firstName": "Alexander"
    },
    "requestDate": "2021-09-09T13:14:41.000+00:00",
    "requestType": "Hold",
    "requesterId": "27bc1f87-8c08-437a-be09-1df885262497",
    "fulfilmentPreference": "Hold Shelf",
    "pickupServicePointId": "3a40852d-49fd-4df2-af9-6e2641a6e91f"
  }
}
``` | ```json
{
  "id": "9c8583f1-8631-4194-a477-572d342cdd4d",
  "requestLevel": "Item",
  "instance": {
    "title": "A semantic web primer",
    "identifiers": [
      {
        "value": "0262012103",
        "identifierTypeId": "8261054f-be78-422d-bd51-4ed9f33c3422"
      },
      {
        "value": "9780262012102",
        "identifierTypeId": "8261054f-be78-422d-bd51-4ed9f33c3422"
      },
      {
        "value": "2003065165",
        "identifierTypeId": "c858e4f2-2b6b-4385-842b-60732ee14abb"
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    ],
    "itemId": "7212ba6a-8dcf-45a1-be9a-ffaa847c4423",
    "status": "Open - Not yet filled",
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      "createdDate": "2021-09-09T13:14:43.756",
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    "position": 1,
    "requester": {
      "barcode": "10001",
      "lastName": "Kurash",
      "firstName": "Alexander"
    },
    "requestDate": "2021-09-09T13:14:41.000+00:00",
    "requestType": "Hold",
    "requesterId": "27bc1f87-8c08-437a-be09-1df885262497",
    "fulfilmentPreference": "Hold Shelf",
    "pickupServicePointId": "3a40852d-49fd-4df2-af9-6e2641a6e91f"
  }
}
``` |

### Planned API changes

**API endpoint:** `/circulation/requests`

Note that `item` field has some additional instance-related values that will also be moved to the `instance` field.

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<th>Current JSON structure (segments to be removed are in orange)</th>
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{
  "id": "9c8583f1-8631-4194-a477-572d342cdd4d",
  "item": {
    "title": "A semantic web primer",
    "barcode": "10101",
    "identifiers": [
      {
        "value": "0262012103",
        "identifierTypeId": "8261054f-be78-422d-bd51-4ed9f33c3422"
      },
      {
        "value": "9780262012102",
        "identifierTypeId": "8261054f-be78-422d-bd51-4ed9f33c3422"
      },
      {
        "value": "2003065165",
        "identifierTypeId": "c858e4f2-2b6b-4385-842b-60732ee14abb"
      }
    ],
    "itemId": "7212ba6a-8dcf-45a1-be9a-ffaa847c4423",
    "status": "Open - Not yet filled",
    "metadata": {
      "createdDate": "2021-09-09T13:14:43.756",
      "updatedDate": "2021-09-09T13:14:43.756+00:00",
      "createdByUserId": "c2d3902a-3454-50ea-998f-42897e32ac5f",
      "updatedByUserId": "c2d3902a-3454-50ea-998f-42897e32ac5f"
    },
    "position": 1,
    "requester": {
      "barcode": "10001",
      "lastName": "Kurash",
      "firstName": "Alexander"
    },
    "requestDate": "2021-09-09T13:14:41.000+00:00",
    "requestType": "Hold",
    "requesterId": "27bc1f87-8c08-437a-be09-1df885262497",
    "fulfilmentPreference": "Hold Shelf",
    "pickupServicePointId": "3a40852d-49fd-4df2-af9-6e2641a6e91f"
  }
}
``` | ```json
{
  "id": "9c8583f1-8631-4194-a477-572d342cdd4d",
  "requestLevel": "Item",
  "instance": {
    "title": "A semantic web primer",
    "identifiers": [
      {
        "value": "0262012103",
        "identifierTypeId": "8261054f-be78-422d-bd51-4ed9f33c3422"
      },
      {
        "value": "9780262012102",
        "identifierTypeId": "8261054f-be78-422d-bd51-4ed9f33c3422"
      },
      {
        "value": "2003065165",
        "identifierTypeId": "c858e4f2-2b6b-4385-842b-60732ee14abb"
      }
    ],
    "itemId": "7212ba6a-8dcf-45a1-be9a-ffaa847c4423",
    "status": "Open - Not yet filled",
    "metadata": {
      "createdDate": "2021-09-09T13:14:43.756",
      "updatedDate": "2021-09-09T13:14:43.756+00:00",
      "createdByUserId": "c2d3902a-3454-50ea-998f-42897e32ac5f",
      "updatedByUserId": "c2d3902a-3454-50ea-998f-42897e32ac5f"
    },
    "position": 1,
    "requester": {
      "barcode": "10001",
      "lastName": "Kurash",
      "firstName": "Alexander"
    },
    "requestDate": "2021-09-09T13:14:41.000+00:00",
    "requestType": "Hold",
    "requesterId": "27bc1f87-8c08-437a-be09-1df885262497",
    "fulfilmentPreference": "Hold Shelf",
    "pickupServicePointId": "3a40852d-49fd-4df2-af9-6e2641a6e91f"
  }
}
``` |
"id": "d0f032db-9579-443e-a2ac-6add937f4aa2",
"requestLevel": "Item",
"requestType": "Hold",
"requestDate": "2021-09-06T15:37:55.000+00:00",
"requesterId": "bec20636-fb68-41fd-84ea-2cf910673599",
"itemId": "100d10bf-2f06-4aa0-be15-0b95b2d9f9e3",
"status": "Open - Not yet filled",
"item": {
  "title": "A semantic web primer",
  "barcode": "90000",
  "identifiers": [
    {
      "value": "0262012103",
      "identifierTypeId": "8261054f-be78-422d-bd51-4ed9f33c3422"
    },
    {
      "value": "9780262012102",
      "identifierTypeId": "8261054f-be78-422d-bd51-4ed9f33c3422"
    },
    {
      "value": "2003065165",
      "identifierTypeId": "c858e4f2-2b6b-4385-842b-60732ee14abb"
    }
  ],
  "holdingsRecordId": "e3ff6133-b9a2-4d4c-a1c9-dc18674df19",
  "instanceId": "5bf370e0-8cca-4d9c-82e4-5170ab2a0a39",
  "instance": {
    "title": "A semantic web primer",
    "identifiers": [
      {
        "value": "0262012103",
        "identifierTypeId": "8261054f-be78-422d-bd51-4ed9f33c3422"
      },
      {
        "value": "9780262012102",
        "identifierTypeId": "8261054f-be78-422d-bd51-4ed9f33c3422"
      },
      {
        "value": "2003065165",
        "identifierTypeId": "c858e4f2-2b6b-4385-842b-60732ee14abb"
      }
    ],
    "publication": {
      "publisher": "Shaker Verlag",
      "place": "Aachen",
      "dateOfPublication": "2017",
      "role": null
    },
    "editions": ["First edition", "Revised edition, 2005"]
  },
  "enumeration": "",
  "status": "Checked out",
  "callNumber": "TK5105.88815 . A58 2004 FT MEADE",
  "callNumberComponents": {},
  "location": {
    "name": "Annex",
    "libraryName": "Datalogisk Institut",
    "code": "KU/CC/DI/A"
  },
  "contributorNames": [
    {
      "name": "Antoniou, Grigoris"
    },
    {
      "name": "Van Harmelen, Frank"
    }
  ]
},
"requester": {
  "lastName": "morty",
  "firstName": "panic",
  "barcode": "456",
  "patronGroupId": "3684a786-6671-4268-8ed0-9d826bc3a6b"
},
"fulfilmentPreference": "Hold Shelf",
"pickupServicePointId": "c4c90014-c8c9-4ade-8f24-b5e313319f4b",
"metadata": {
  "createdDate": "2021-09-06T15:37:56.188+00:00",
  "createdByUserId": "226dfeeb-0264-57fc-afcd-d5df2d705dd5",
  "updatedDate": "2021-09-06T15:37:56.188+00:00",
  "updatedByUserId": "226dfeeb-0264-57fc-afcd-d5df2d705dd5"
},
"position": 1,
"loan": {
  "dueDate": "2021-09-06T16:36:56.029Z"
},
"pickupServicePoint": {
  "name": "Circ Desk 2",
  "code": "cd2",
  "discoveryDisplayName": "Circulation Desk -- Back"}
Proposed JSON structure for request from UI side

```json
{
    "itemId": "100d10bf-2f06-4aa0-be15-0b95b2d9f9e3",
    "item": {
        "barcode": "90000",
        "holdingsRecordId": "e3ff6133-b9a2-4d4c-a1c9-dc1867d4df19",
        "location": {
            "name": "Annex",
            "libraryName": "Datalogisk Institut",
            "code": "KU/CC/DI/A"
        },
        "enumeration": ".",
        "status": "Checked out",
        "callNumber": "TK5105.88815 . A58 2004 FT MEADE",
        "callNumberComponents": {
            "callNumber": "TK5105.88815 . A58 2004 FT MEADE"
        }
    },
    "requester": {
        "lastName": "morty",
        "firstName": "panic",
        "barcode": "456",
        "patronGroupId": "3684a786-6671-4268-8ed0-9db82ebca60b"
    },
    "fulfilmentPreference": "Hold Shelf",
    "pickupServicePointId": "c4c90014-c8c9-4ade-8f24-b5e313319f4b",
    "metadata": {
        "createdDate": "2021-09-06T15:37:56.188+00:00",
        "createdByUserId": "226dfeeb-0264-57fc-afcd-d5df2d705dd5",
        "updatedDate": "2021-09-06T15:37:56.188+00:00",
        "updatedByUserId": "226dfeeb-0264-57fc-afcd-d5df2d705dd5"
    },
    "position": 1,
    "loan": {
        "dueDate": "2021-09-06T16:36:56.029Z"
    },
    "pickupServicePoint": {
        "name": "Circ Desk 2",
        "code": "cd2",
        "discoveryDisplayName": "Circulation Desk -- Back Entrance",
        "description": null,
        "shelvingLagTime": null,
        "pickupLocation": true
    }
}
```
{
    "id": "df45dc97-32c9-458f-9b32-2c1ea8e73159",
    "requestLevel": "Item",
    "requestType": "Hold",
    "fulfilmentPreference": "Hold Shelf",
    "item": {
        "barcode": "90000"
    },
    "itemId": "100d10bf-2f06-4aa0-be15-0b95b2d9f9e3",
    "requester": {
        "barcode": "11111"
    },
    "requestDate": "2021-10-19T12:54:47Z",
    "requesterId": "503ea8a5-fdd0-4c7a-b38d-9bdf2368f869",
    "pickupServicePointId": "3a40852d-49fd-4df2-alf9-6e2641a6e91f",
    "instanceId": "5bf370e0-8cca-4d9c-82e4-5170ab2a0a39"
}